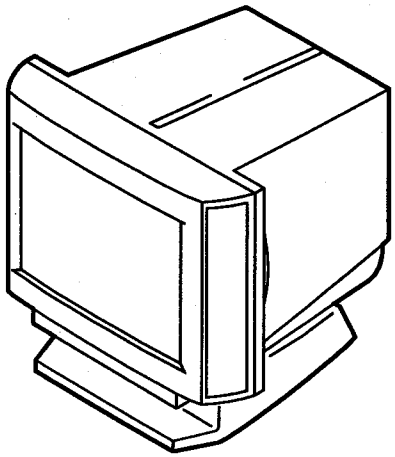
CPD-100VS

SERVICE MANUAL

US Model
Canadian Model
Chassis No. SCC-K24A-A



VAIO

X-2 CHASSIS

SPECIFICATIONS

Picture tube	0.25 mm aperture grille pitch, 15 inches measured diagonally, 90-degree deflection, AR coating
Viewable image size	Approx. 284 × 212 mm (w/h) (11 1/4 × 8 3/8 inches) 13.9" viewing image
Logical resolution	Horizontal: Max. 1280 dots Vertical: Max. 1024 lines
Physical resolution	Horizontal: Max. 1024 dots Vertical: Max. 768 lines
Standard image area	Approx. 270 × 202 mm (w/h) (10 3/4 × 8 inches)
Deflection frequency	Horizontal: 31 to 65 kHz Vertical: 50 to 120 Hz
Speaker	Left, right: 3.5 W x 2, Sub-woofer: 10 W 50 – 20 kHz
Microphones	Uni-direction, electret condenser microphone
Microphones output	Miniplug
Audio input	Stereo miniplug, input impedance 47 kΩ, input level 0.7 Vrms typical
Headphones output	Stereo minijack, 4 mW + 4 mW at 16 Ω
Microphones input	Minijack, plug-in-power
AC input voltage/current	100 to 120 V, 50/60 Hz, 2.2 A
Dimensions	Approx. 424 × 419 × 388 mm (w/h/d) (16 3/4 × 16 1/2 × 15 3/8 inches)
Mass	Approx. 16.8 kg (37 lb 1 oz)

Design and specifications are subject to change without notice.

TRINITRON® MULTIMEDIA COMPUTER DISPLAY

MICROFILM

SONY®

TIMING SPECIFICATION

PRIMARY MODE MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3	MODE 4	PRIMARY MODE MODE 5	MODE 6
RESOLUTION CLOCK	640 X 400 25.175 MHz	640 X 350 25.175 MHz	640 X 480 25.175 MHz	640 X 480 31.500 MHz	800 X 600 49.500 MHz	1024 X 768 78.750 MHz
– HORIZONTAL –						
H-FREQ	31.469 kHz	31.469 kHz	31.469 kHz	37.500 kHz	46.875 kHz	60.023 kHz
	usec	usec	usec	usec	usec	usec
H. TOTAL	31.778	31.778	31.778	26.667	21.333	16.660
H. BLK	6.356	6.356	6.356	6.349	5.172	3.657
H. FP	0.636	0.636	0.636	0.508	0.323	0.203
H. SYNC	3.813	3.813	3.813	2.032	1.616	1.219
H. BP	1.907	1.907	1.907	3.810	3.232	2.235
H. ACTIV	25.422	25.422	25.422	20.317	16.162	13.003
– VERTICAL –						
V. FREQ	70.086 Hz	70.086 Hz	59.940 Hz	75.000 Hz	75.000 Hz	75.029 Hz
	lines	lines	lines	lines	lines	lines
V. TOTAL	449	449	525	500	625	800
V. BLK	49	99	45	20	25	32
V. FP	12	37	10	1	1	1
V. SYNC	2	2	2	3	3	3
V. BP	35	60	33	16	21	28
V. ACTIV	400	350	480	480	600	768
– SYNC –						
INT(G)	NO	NO	NO	NO	NO	NO
EXT(H/V)/POLARITY	YES -/+	YES +/-	YES -/-	YES -/-	YES +/+	YES +/+
EXT(CS) /POLARITY	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

96.6.14 VER

Power Saving Function

This monitor meets the power saving guidelines set by the International ENERGY STAR Program. It is capable of reduced power consumption when used with a computer equipped with Display Power Management Signaling (DPMS). By sensing the absence of the sync signal coming from the computer, it will reduce the power consumption as follows:

✔ **CAUTION**

The Power Saving function will automatically put the monitor into Active-off state if the power switch is turned on without any video signal input. Once the horizontal and vertical syncs are sensed, the monitor will automatically return to its Normal operation state.

State		Power consumption	Required resumption time	⏻ Power indicator	Speaker
1	Normal operation	130 W (max)	—	Green	On
2	Suspend (1st step of power saving)	15 W (max)[1)]	Approx. 3 sec.	Green ⟷ Orange	Off[2)]
3	Active-off (2nd step of power saving)	8 W (max)	Approx. 10 sec.	Orange	Off[2)]
4	Power-off	Approx. 6 W[3)]	—	Off	Off

✔ **Notes**

1) When the audio circuitry is inactive.
2) The audio circuitry will constantly be active as long as the monitor keeps receiving the audio signal including noise.
   When the audio signal is completely shut down, the audio circuitry will be automatically turned off after 30 seconds. Once turned off, the audio circuitry will not be active again until the monitor returns to its Normal operation state.
3) To lower the power consumption to 0 W, disconnect the power cord.

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

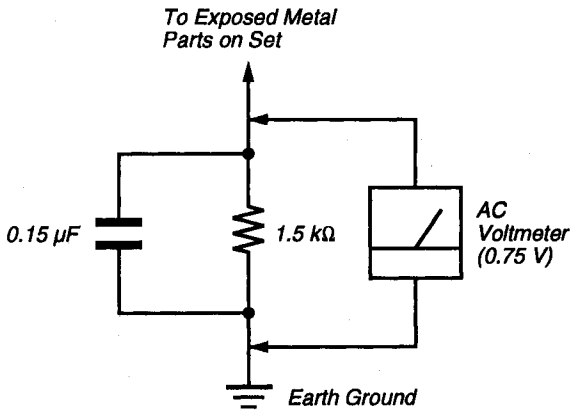


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!
NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!
NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

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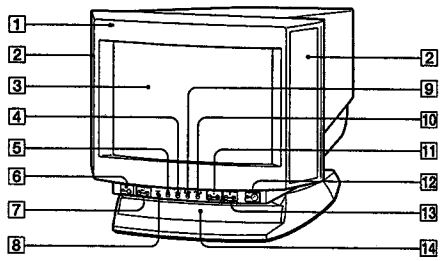
SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Functions of Controls

Front



1	**Microphone**	The internal microphone is turned off when an external microphone is connected.
2	**Main speaker**	—
3	**Display**	Displays OSD when adjusting.
4	**Geometry button**	Adjusts pincushion and rotation (pages 16, 17).
5	**Color temperature button**	Adjusts color temperature (page 18).
6	**Mute button and indicator**	Mutes sound (page 19).
7	**Volume –/+ buttons**	Adjusts speaker volume (page 19). The default setting of the volume level is 30 %.
8	**Reset switch**	Resets adjustments to factory setting (page 19).
9	**Size button**	Adjusts picture size (page15).
10	**Centering button**	Adjusts picture centering (page 14).
11	**–/+ Brightness button**	Adjusts picture brightness (page 13).
12	**Power switch and indicator**	Turns on and off the unit.
13	**–/+ Contrast button**	Adjusts picture contrast (page 14).
14	**Sub woofer**	—

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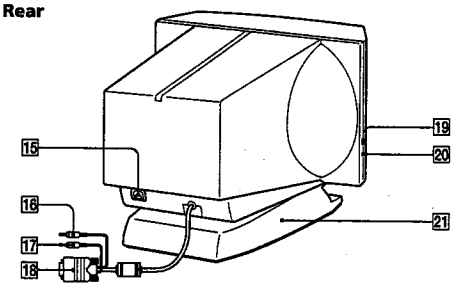
Rear



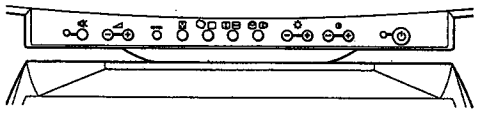
15	**AC IN connector**	Connect the supplied power cord (page 10).
16	**Audio plug (green)**	Connect to the computer's speaker output (page 10).
17	**MIC plug (red)**	Connect to the computer's microphone input (page 10).
18	**Video signal cable (blue)**	Connect to the computer's video output (page 10).
19	**Headphones jack**	Connect headphones (not supplied). The speakers are turned off when headphones are connected.
20	**Microphone jack**	Connect a microphone (not supplied).
21	**Tilt-Swivel**	Adjusts the angle of the display.

Adjustments

When one of the preset-type signals is input, no picture adjustment is necessary.
You can, however, adjust the picture to your preference by following the procedure described below.

To adjust the monitor, turn on the monitor and computer.
Select the adjustment item. You can adjust all items except sound controls via the OSD (On Screen Display).
Adjustments are automatically stored in the monitor's memory.

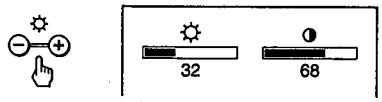
Control Panel



Adjusting the picture brightness

The adjustment data becomes the common setting for all input signals.

1. Press the ☼ + or – button.
   The "☼ ◑" OSD appears.



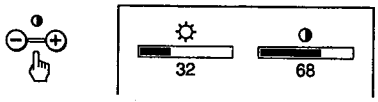
2. Press the ☼ +/– buttons to adjust the picture brightness.
   + for more brightness
   – for less brightness

The "☼ ◑" OSD disappears 2 seconds after you release the buttons.

Adjusting the picture contrast

The adjustment data becomes the common setting for all input signals.

1. Press the ◑ + or – button.
   The "☼ ◑" OSD appears.



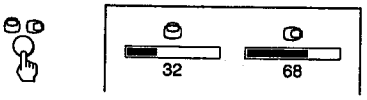
2. Press the ◑ +/– buttons to adjust the picture contrast.
   + for more contrast
   – for less contrast

The "☼ ◑" OSD disappears 2 seconds after you release the buttons.

Adjusting the picture centering

The adjustment data becomes the individual setting for each input signal received.

1. Press the ⊖ ⊙ button.
   The "⊖ ⊙" OSD appears.



2. For vertical adjustment
Press the ☼ +/– buttons.
+ to move up
– to move down

For horizontal adjustment
Press the ◑ +/– buttons.
+ to move right
– to move left

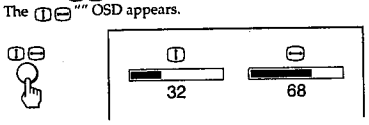
To exit the OSD
Press the ⊖ ⊙ button again.

✎ **Tip**
If you don't touch any button, the OSD automatically disappears after 20 seconds. When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Adjusting the picture size

The adjustment data becomes the individual setting for each input signal received.

1. Press the ⊕⊖ button.
The ⊕⊖ "" OSD appears.



2. For vertical adjustment
Press the ☼ +/– buttons.
+ to increase
– to decrease

For horizontal adjustment
Press the ◑ +/– buttons.
+ to increase
– to decrease

Continued to the next page ➔

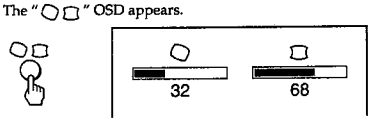
To exit the OSD
Press the ⊖ ⊙ button again.

✎ **Tip**
If you don't touch any button, the OSD automatically disappears after 20 seconds. When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Adjusting the picture rotation

The adjustment data becomes the common setting for all input signals.

1. Press the ⬡ ⬠ button.
The "⬡ ⬠" OSD appears.



2. Press the ☼ +/– buttons.
+ to rotate clockwise
– to rotate counterclockwise

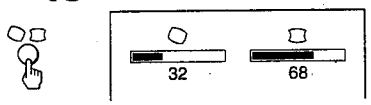
To exit the OSD
Press the ⬡ ⬠ button again.

✎ **Tip**
If you don't touch any button, the OSD automatically disappears after 20 seconds. When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Adjusting the pincushion

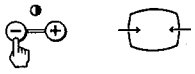
The adjustment data becomes the individual setting for each input signal received.

1. Press the ⬡ ⬠ button.
The "⬡ ⬠" OSD appears.



2. Press the ◑ +/– buttons.
+ to expand the picture sides

– to diminish the picture sides



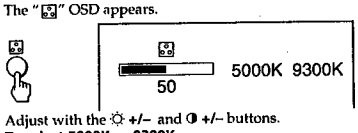
To exit the OSD
Press the ⬡ ⬠ button again.

✎ **Tip**
If you don't touch any button, the OSD automatically disappears after 20 seconds. When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Setting the color temperature

The selected color temperature becomes the common setting for all input signals.

1. Press the ⊡ button.
The "⊡" OSD appears.



2. Adjust with the ☼ +/– and ◑ +/– buttons.
To select 5000K or 9300K
Press ◑ +/– buttons.
The selected color temperature is indicated in yellow.
+ to select 9300K
– to select 5000K

To obtain the desired color temperature between 5000K and 9300K
Press ☼ +/– buttons.
+ for higher temperature
– for lower temperature

✎ **Tip**
The first press of ☼ + or – button recalls the color temperature which was obtained at the last adjustment.

To exit the OSD
Press the ⊡ button again.

✎ **Tip**
If you don't touch any button, the OSD automatically disappears after 20 seconds. When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

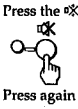
Adjusting volume

Adjust with the ◿ +/– buttons.
+ to increase volume
– to decrease volume

Tips
- The 🔇 indicator flashes while adjusting volume.
- The default setting of the volume level is 30 %.
- No indicator about volume level appears.
- Adjust the volume while listening to the sound.
- Excessively high volume may cause howling.

■ To mute the sound

Press the 🔇 button. The 🔇 indicator lights.

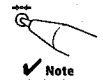


Press again to cancel muting.

Resetting

■ To recall the factory settings for the current mode

Press the ⋯ button to recall the factory settings.



Note
The ~~brightness, contrast,~~ rotation and color temperature do not return to the factory settings.

■ To recall the factory settings for all modes

Press and hold the ⋯ button for 5 seconds.
All adjustments return to the factory settings.

Troubleshooting

This section may help you isolate a problem and as a result, eliminate the need to contact technical support, allowing continued productivity.

No picture

If the ⏻ indicator is not lit
- → Check that the power cord is properly connected.
- → Check that the ⏻ switch is in the "ON" position.

If the ⏻ indicator is flashing in orange
- → Check that your computer power switch is in the "ON" position.
- → The monitor may recover when you press any key on the keyboard of the computer.
- → Check that the video cable is properly connected.
- → Ensure that no pins are bent or pushed in the HD15 connector of the cable.
- → Check that the video card in your computer is seated completely in a proper bus slot.
- → Check that the video sync signal is within that specified for the monitor.
- → This monitor has a self-diagnostics function. To activate the function, turn off the computer and the monitor. Press and hold the ⏻ switch of the monitor for about 8 seconds. If the monitor is operating correctly, the screen will become white first and then the color bars will appear.

If the ⏻ indicator is flashing in red
- → Check that the video sync signal is specified for the monitor.
- → There is a potential monitor failure. Contact Sony Technical Support.

No sound from speaker

If the 🔇 indicator is lit
- → Press the 🔇 button to cancel muting.

- → Check that the audio plug is properly connected.
- → Adjust the volume with ◿ +/– buttons.
- → Check that the headphones are not connected.
- → Check that the sound board of the computer is properly connected.
- → Check that the volume control, muting, sound selector, etc. of the sound board. (See the computer's manual.)

Microphone mixing is not possible
- → Check that the MIC plug is properly connected.
- → Check that the sound board of the computer is properly connected.
- → Check that the microphone control, sound selector, etc. of the sound board. (See the computer's manual.)

Howling (feed-back) is heard
- → Decrease the volume with ◿ +/– buttons, or turn down the microphone input volume of the sound board.

Picture is scrambled
- → Check your graphics board manual for the proper monitor setting on the monitor.
- → Check this manual and confirm that the graphic mode and the frequency at which you are trying to operate is supported. Even within the proper range, some video boards may have a sync pulse that is too narrow for the monitor to sync correctly.

Color is not uniform
- → Trip the ⏻ switch once to activate the Auto-degauss cycle*.

Screen image is not centered or sized properly
- → Adjust picture centering, size, or geometry (rotation/ pincushion) on the OSD (pages 16, 17).
- → Some video modes do not fill the screen to the edge of the monitor. There is no single answer to solve the problem. There is a tendency for this problem to occur on higher refresh timings.

Picture is fuzzy
- → Adjust the contrast and brightness on the OSD (pages 13, 14). Some brands of SVGA boards have an excessive video output level which creates a fuzzy picture at maximum contrast.
- → Trip the ⏻ switch once to activate the Auto-degauss cycle*.

Picture bounces or has wavy oscillations
- → Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting, laser printers, etc.
- → If you have another monitor close to this monitor, increase the distance between them to reduce interference.
- → Try plugging the monitor into a different AC outlet, preferably on a different circuit.

Picture appears to be ghosting
- → Eliminate the use of video extension cables and/or video switch boxes if this symptom occurs. Excessive cable length or weak connections can produce this symptom.

A fine horizontal line (wire) is visible
- → This wire stabilizes the vertically striped Aperture Grille. The Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.

Continued to the next page →

Wavy or elliptical (moire) pattern is visible
- → Due to the relationship between resolution, monitor Aperture Grille pitch and the pitch of some image patterns, certain screen backgrounds, especially gray, sometimes show moire which looks like wavy lines. This can only be eliminated by changing your desktop pattern.

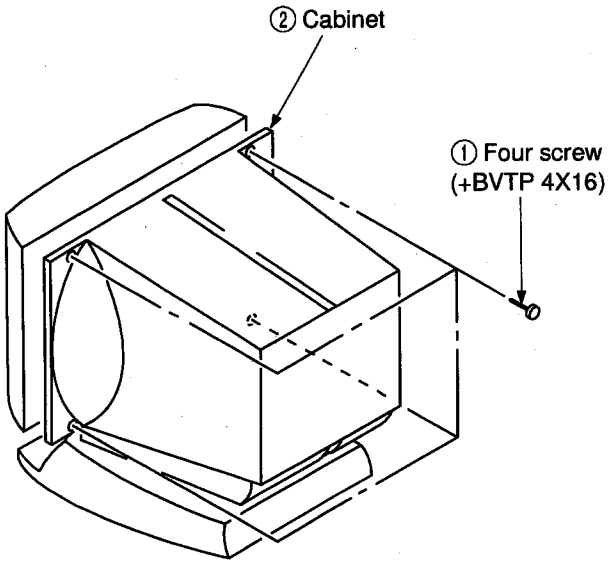
Hum is heard right after the power is turned on
- → When the power is turn on, the Auto-degauss cycle* is activated. While the Auto-degauss cycle is activated, a hum may be heard. This is not a malfunction.

* The Auto-degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.

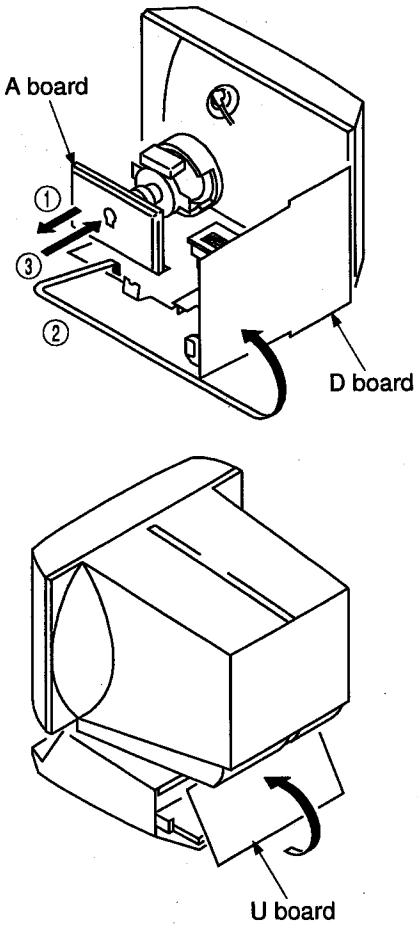
- If the problem persists, call your authorized Sony dealer from a location near you, or call Sony Technical Support at 1-800-326-9551.
- Note the model name and the serial number of your monitor. Also note the make and name of your computer and video board.

SECTION 2
DISASSEMBLY

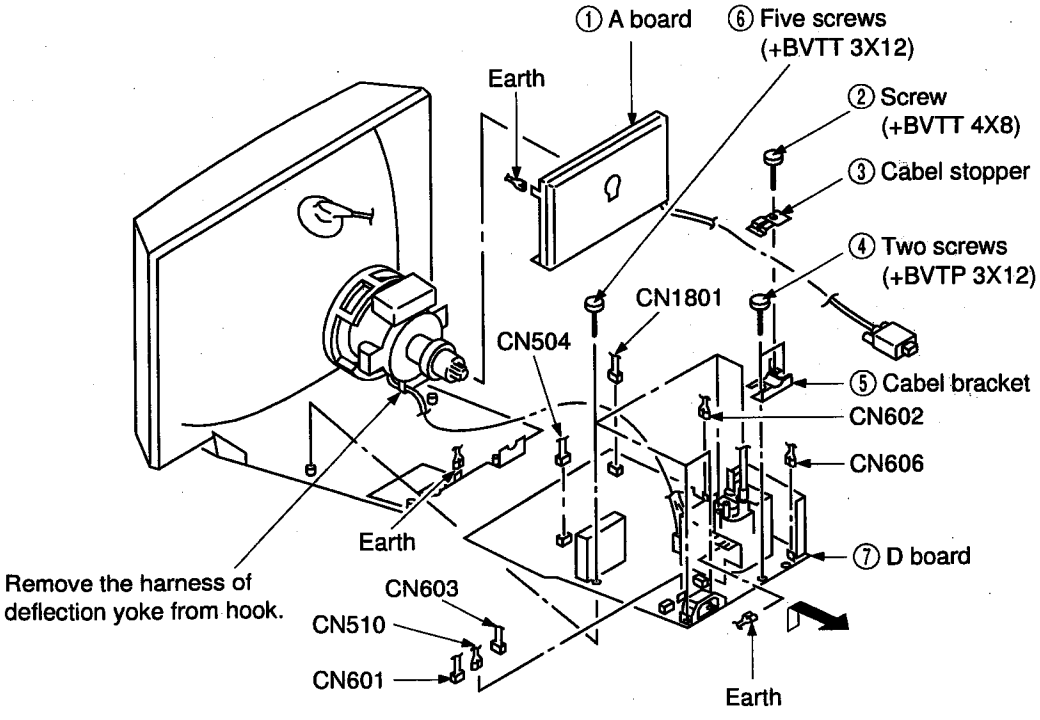
2-1. CABINET REMOVAL



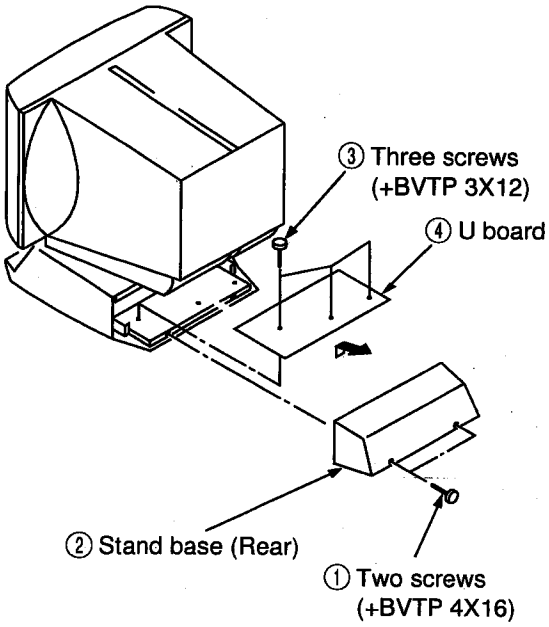
2-2. SERVICE POSITION



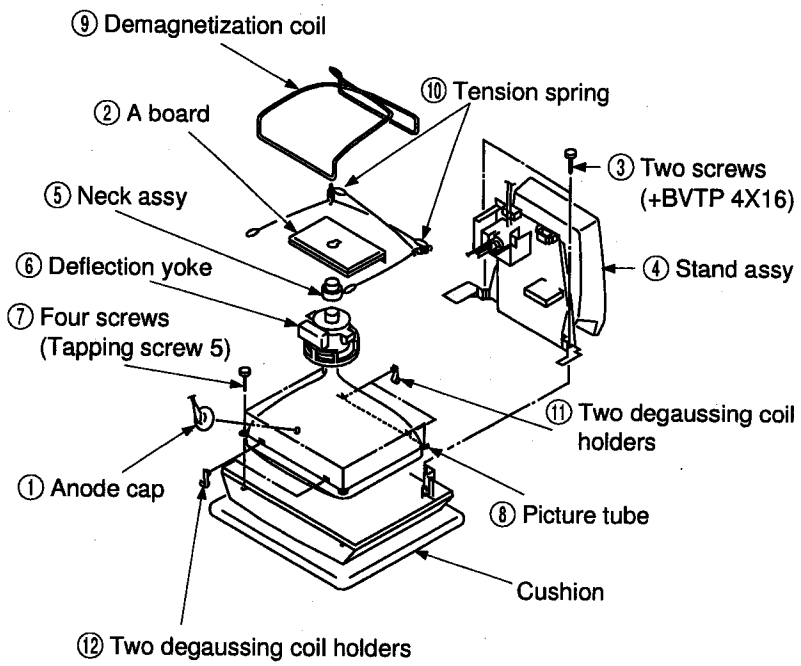
2-3. D BOARD REMOVAL



2-4. U BOARD REMOVEAL



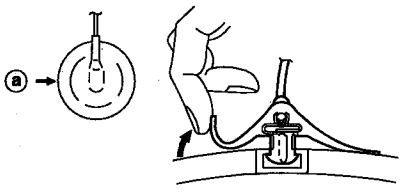
2-5. PICTURE TUBE REMOVAL



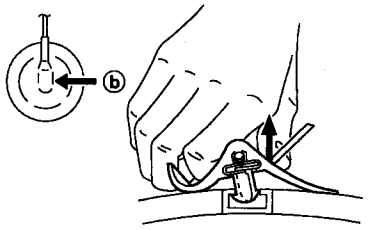
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

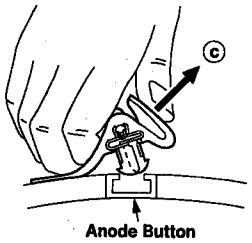
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



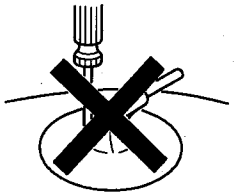
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

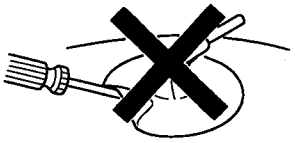


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (⋈)
HV ADJ	RV470

	Part Replaced (◪)
HV Regulator Circuit	D board IC501, FBT (T501), R457, R475, R487, R508, R509, R512, RV470, C509, C526, C541, C542, C580, C585
HV Hold-Down Circuit	D board IC500, IC501, D407, D515, R472, R492, R494, R496, R577, C402, C403, C404, FBT (T501) • Mounted D board
Beam Current Protector Circuit	D board IC500, IC501, D596, D597, R450, R459, R460, R498, R970 C528, C549, C938 • Mounted D board

※ Confirm one minute later turning on the power.

a) HV Regulator Check

1) Input white cross hatch signal. (fH = 63.9 kHz)
2) Minimum CONT and BRT controls.
3) Cut off Screen VR (G2).
4) Input voltage : 120 ± 2 VAC
5) Confirm that the voltage is within the voltage range shown below.
   Standard voltage: Less than 25.5 KV

b) HV Hold-Down Check

1) Using an external DC Power supply, apply the voltage shown below between cathode of D407 and GND, and confirm that the HV Hold-Down circuit works. (TV Raster disappears)
   Standard voltage: 31.6 ± 0.05 V DC
   Check Condition
   - Input voltage : 120 ± 2 V AC
   - Input signal : Any pattern (fH = 63.9 kHz)
   - Controls : CONT and BRT → Minimum
     : Screen VR (G2) → Cutoff

c) Beam Protector Check-1 (Software logic)

1) Using an external DC power supply, apply the voltage 7.00 ± 0.05 VDC between pin ⑪ of FBT (T501) and GND, and confirm that the voltage of both ends C938 is with in the voltage range shown below.
   Standard voltage: Less than 3.26 V DC
   Check Condition
   - Input voltage : 120 ± 2 V DC
   - Input signal : Any pattern (fH = 63.9 kHz)
   - Controls : CONT and BRT → Minimum
     : Screen VR (G2) → Cutoff

d) Beam Protector Check-2 (Hardware logic)

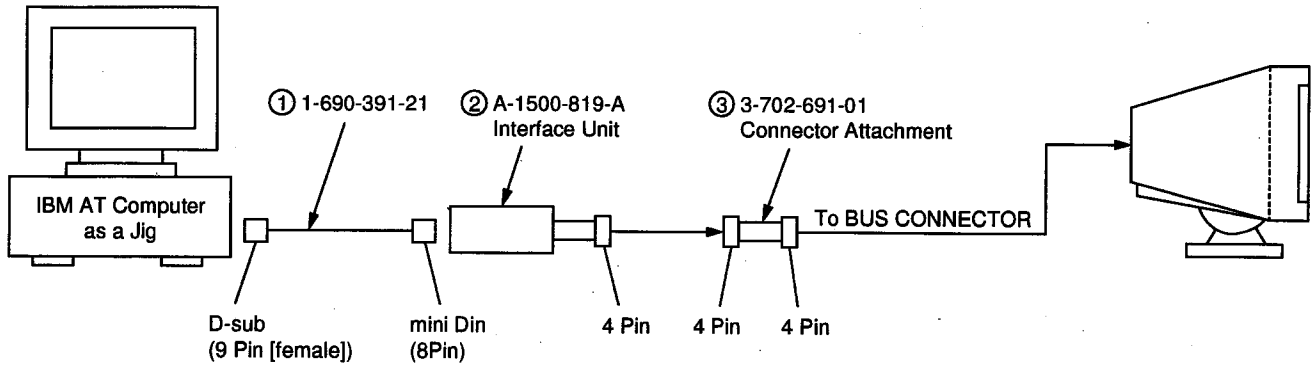
1) Applying specified external DC voltage 5.00 V DC at between C938 (Side of anode) and GND.
2) Confirm that the beam current protector circuit is to be activated when to make short between pin ⑪ of FBT (T501) and GND.

e) +B MAX Check

1) Input white cross hatch (fH = 63.9 kHz) signal.
2) Minimum CONT and BRT controls.
3) Input voltage : 120 ± 2 V AC
   Note: Use NF power supply or make sure that distortion factor is 3% or less.
4) Confirm that the voltage is within the voltage range shown below.
   Standard voltage : 140 ± 2 V

SECTION 4
ADJUSTMENTS

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.



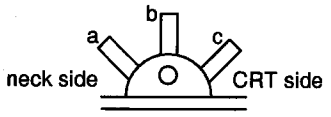
*The parts above (① ~ ③) are necessary for DAS adjustment.

● H.CENT Adjustment

(This should be performed before Convergence Adjustment.)

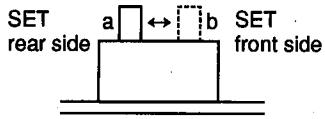
1. Receive the picture with maximum frequency. (Dot signal)
2. Adjust "BRT" to "255", "H.SIZE" to "–127".
3. Set the lever switch (S500) to the CRT neck side (position "a"). Select the minimum point of right and left difference of the raster at (S501). Then fine adjust H.CENT at switch (S500).

※ Correction distance change-over : S500



Shifting distance { a 1mm, b 2mm, c 3mm

※ Correction direction change-over : S501



moving direction { a left, b right

● Landing Rough Adjustment

1. Enter the full white signal.
2. Adjust the contrast to the maximum.
3. Make the screen monogreen.
4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
5. Moving the DY forward, adjust so that an entire screen becomes monogreen.
6. Adjust the tilt of DY, and fix lightly with a clamp.

● Landing Fine Adjustment

1. Place the set in the Helmholtz coil.
2. Enter a green signal only.
3. Degauss the entire screen with hand-degausser.
4. Attach a wobbling coil to the specified position of CRT neck.
5. Attach a landing adjuster sensor on the CRT.
6. Using a landing checker, adjust the DY position, purity, tilt of DY.
7. Clamp the DY screw.
   Clamping torque : 22 ± 2 kgcm (2.2 ± 0.2 N·m)

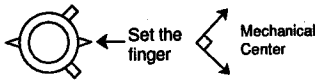
● Convergence Rough Adjustment

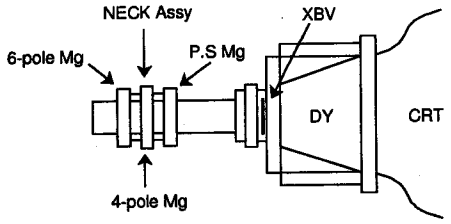
1. Enter the white crosshatch signal.
2. Adjust roughly the horizontal and vertical convergence at four-pole magnet.
3. Adjust roughly HMC and VMC at six-pole magnet.

● Convergence Fine Adjustment

※ Set DY four-pole magnet to mechanical center before adjustment.

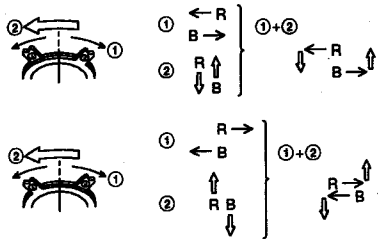
※ This should be prime mode.





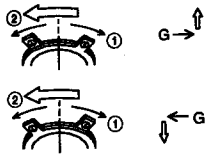
1. Receive R.B. cross-hatch.
2. Adjust H.STAT and V.STAT at four-pole magnet.

< 4 Pole Magnet >



3. Receive White cross-hatch.
4. Adjust HMC and VMC at six-pole magnet.

< 6 Pole Magnet >



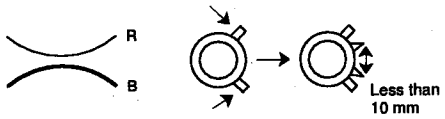
5. Receive R.B. cross-hatch.
6. Adjust XBV at DY four-pole magnet.

XBV Correction

ⓐ When

1) Open DY four-pole. (Do not move H.STAT)
2) Re-adjust V.STAT with four-pole at NECK Ass'y.

ⓑ When



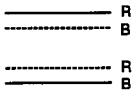
1) Close DY four-pole. (Do not move H.STAT)
2) Re-adjust V.STAT with four-pole at NECK Ass'y.

7. Repeat the above procedure so that R.G.B. will be on X. Y axis.
8. Adjust H.TILT by swinging the DY neck right and left.
9. Adjust XCV with XCV core.

XCV movement

10. Adjust V.TILT with TLV VR.

TLV movement

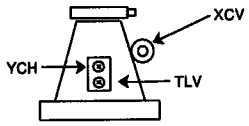


11. Adjust Y.CLOTH with YCH VR.

YCH movement

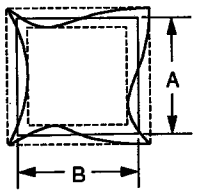
12. Paint lock the four-, six-pole Mg.

< VR Adjustment on DY >



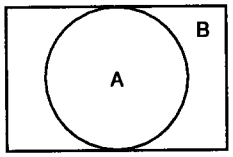
< Zero Position NECK Ass'y >

● Vertical and Horizontal Position and Size Specification



MODE	All mode
A	202 mm
B	270 mm

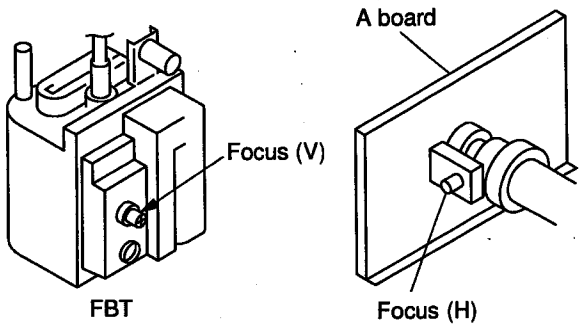
● Convergence Specification



A ≦ 0.30mm
B ≦ 0.35mm

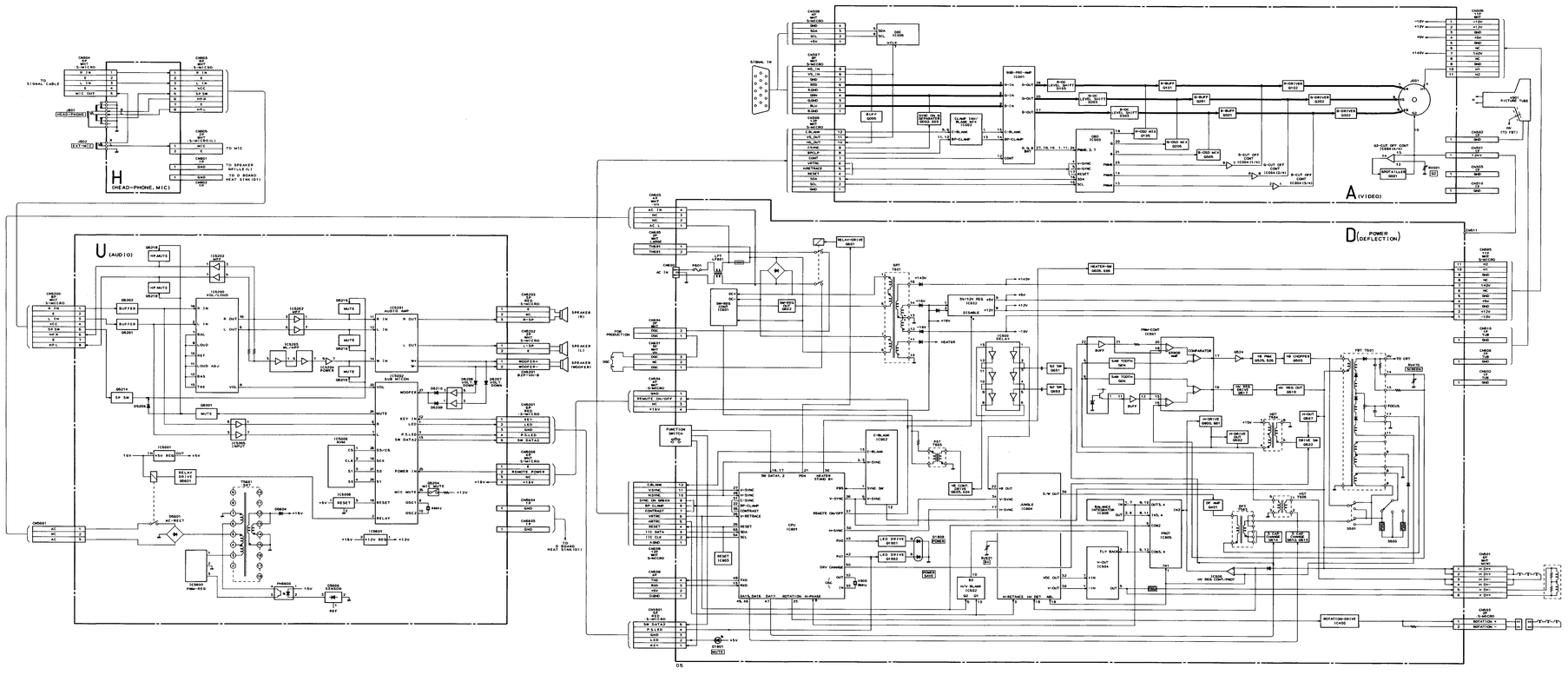
● Focus adjustment

Adjust the focus volume (V) and (H) for the optimun focus.

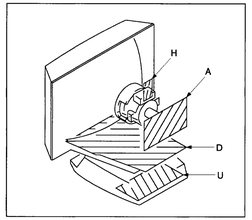


SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM (with FRAME SCHEMATIC DIAGRAM)



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF
  50 V or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- The components identified by **H** in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ⚠, make the necessary adjustments indicated. (See page 10)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (H)	
RV470	HV ADJ

Part replaced (⚠)		
D board	IC501, FBT (T501), R457, R475, R487, R508, R509, R512, RV470, C509, C526, C541, C542, C580, C585	HV Regulator Circuit
D board	IC500, IC501, D407, D515, R472, R492, R494, R496, R577, C402, C403, C404, FBT (T501) • Mounted D board	HV Hold-Down Circuit
D board	IC500, IC501, D596, D597, R450, R459, R460, R498, R970, C528, C549, C938 • Mounted D board	Beam Current Protector Circuit

- All voltages are in V.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B – bus.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) Schematic Diagram of D Board

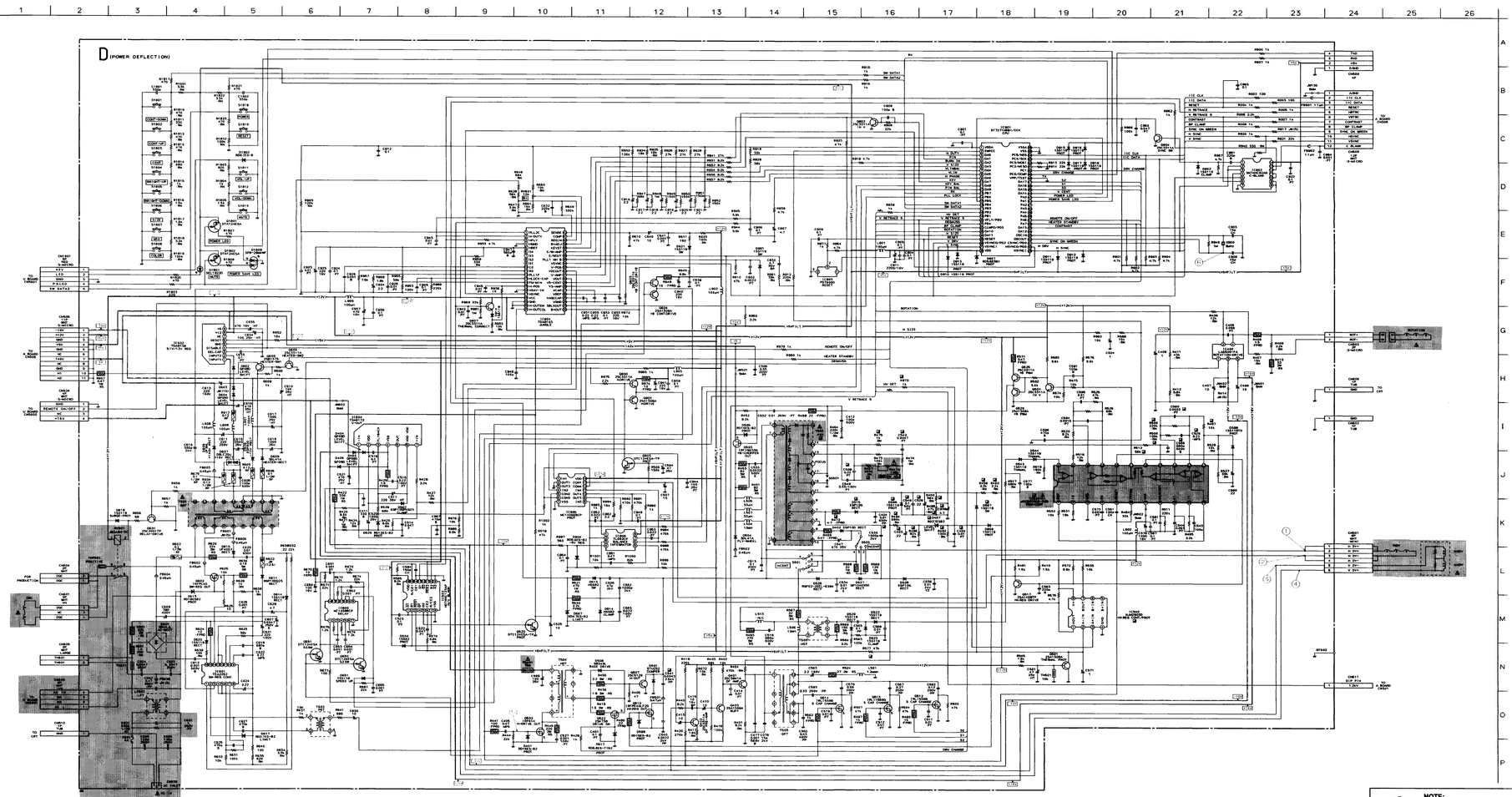
● D BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC400	1	1.5
	2	1.5
	3	−10.7
	4	1.5
IC500	1	0.2
	2	5.2
	3	4.2
	7	3.6
IC501	1	6.1
	2	9.2
	4	6.8
	5	+
	6	5.6
	8	7.2
	9	4.7
	10	5.7
	11	6.1
	12	6.1
	13	6.1
	14	6.3
	15	6.1
	16	7.9
	17	2.6
	18	4.7
	19	5.6
	20	4.7
	21	5.1
	22	5.1
IC502	2	1.5
	3	5.2
	5	0.2
	7	5.2
	10	−0.3
	11	5.3
	13	0.4
	14	0.4
	15	5.0
IC504	1	1.2
	3	−8.3
	5	0.3
	6	16.1
	7	1.2
IC600	1	2.2
	2	9.9
	3	9.9
	4	2.1
	5	2.0
	6	10.0
	8	2.1
	9	10.0
	10	10.0
	11	1.9
	12	2.0
	13	10.0
IC601	1	0.2
	2	0.2
	3	0
	4, 5	0
	6	2.9
	7	1.3
	8	0
	9	0.9
	10	2.5
	11	2.6
	12, 13	0
	14	2.9
	15	15.8
	16	14.4
IC602	1	15.7
	2	15.7
	3	3.1
	4	5.2
	6	5.2
IC901	1	8.3
	2	4.2
	3	3.8
	4	2.9
	5	0.7
	6	2.6
	7	3.8
	8	2.4
	9	2.3
	10	2.5
	11	2.7
	12	2.6
	13	5.2
	14	5.2
	15	5.2
	16	5.1
	17	5.0
	18	4.6
	19	4.2
	20	0.1
	21	0
	22	0
	23	2.2
	24	3.7
	25	5.2
	26	0
	27	5.2
	29	0
	30	0.7
	31	0.7
	32	1.7
	33	+
	35	3.9
	36	1.6
	37	5.2
	44	3.3
	45	5.2
	46	5.2
	47	5.2
	49	5.2
	50	5.2
	51	5.2
	52	5.2
	53	4.9
	54	4.7
IC902	1	5.2
	2, 3	0
	4	5.2
	5	0
	6	0.2
	8, 9	5.2
	10	0.2
	11	0.2
	12	−0.2
	13	4.7

Ref.	Pin No.	Voltage [V]
IC903	3	5.2
IC904	1	3.1
	2	3.8
	3	0.2
	5	8.3
	10	4.2
	11	2.3
	12	2.3
	13	7.5
	14	4.2
	15	3.8
	17	0.7
	21	5.4
	22	2.3
	23	5.3
	25	5.3
	26	8.3
	27	3.7
	28	3.6
	29	4.7
	30	3.7
	31	3.8
	32	3.7
	33	4.7
	34	0
	35	0
	36	2.2
	37	4.0
	38	4.7
	39	4.7
	40	4.9
	41	3.9
	42	0
IC905	1	5.4
	4	5.4
	5	5.4
	6	0.4
	8	−0.5
	9	2.7
	10	2.7
	11	2.7
	12	−0.5
	13	0.5
IC908	1	2.7
	2	2.7
	3	2.7
	4	−5.8
	5	2.7
	6	2.8
	7	2.7
Q401	B	1.8
	C	69.5
	E	1.4
Q501	B	8.1
	E	5.2
Q502	G	3.3
	D	17.9
Q503	G	141.4
	D	46.8
Q507	B	−0.5
	C	47.1
Q510	G	7.0
	S	10.57
Q512	G	5.2
	D	0
Q513	G	5.2
	D	0
Q514	G	5.2
	D	0
Q517	B	7.9
	E	7.0
Q520	B	0.2
	C	0.4
Q522	G	5.2
	D	−0.5
	S	−0.5
Q524	B	0.3
	C	8.2
Q525	B	8.2
	E	8.0
Q526	B	8.2
	E	8.0
Q601	B	0
	C	12.3
Q602	G	2.9
	D	134.5
	S	0.2
Q603	B	2.4
	E	2.5
Q604	B	2.4
	E	2.5
Q605	B	6.0
	C	6.3
	E	6.7
Q606	B	0.8
	C	0
Q650	B	4.9
	C	−0.1
Q651	B	4.8
	C	−0.1
Q900	B	5.4
	E	5.5
Q901	B	5.4
	E	5.5
Q902	B	0.3
	C	5.6
Q903	B	0.2
	C	5.4
Q904	B	0
	C	5.2

● D BOARD WAVEFORMS

①	②	③	④	⑤	⑥
1.000 Vp-p (H)	50.0 Vp-p (H)	1.5 Vp-p (V)	50.0 Vp-p (V)	10.0 Vp-p (H)	5.5 Vp-p (H)



Schematic diagram
D board ➡

● D BOARD SEMICONDUCTOR LOCATION

IC	
IC400	E-4
IC500	D-3
IC501	D-3
IC502	C-3
IC504	D-3
IC600	E-3
IC601	B-2
IC602	C-2
IC901	D-1
IC902	C-2
IC903	E-1
IC904	D-2
IC905	D-3
IC908	D-3

TRANSISTOR	
Q401	D-4
Q402	C-4
Q403	C-4
Q501	C-3
Q502	C-2
Q503	A-2
Q507	B-3
Q510	B-3
Q512	C-3
Q513	C-3
Q514	C-3
Q517	D-3
Q520	D-3
Q522	C-2
Q524	D-4
Q525	D-4
Q526	C-4
Q601	C-1
Q602	C-1
Q603	E-2
Q604	E-2
Q605	D-1
Q606	D-1
Q650	D-3
Q651	E-3
Q900	E-3
Q901	E-3
Q902	D-1
Q903	D-3
Q904	D-2
Q907	D-2
Q1801	E-1
Q1802	E-1

DIODE	
D401	C-2
D402	A-3
D403	C-3
D404	D-3
D405	D-3
D407	B-4
D501	B-2
D502	B-3
D504	A-3
D505	A-2
D508	C-2
D513	B-2
D514	B-3
D515	A-3
D517	C-3
D522	C-3
D523	C-3
D525	D-3
D526	B-2
D527	B-3
D528	B-3
D529	C-3
D530	C-3
D543	D-4
D544	D-4
D557	B-2
D596	B-3
D597	D-4
D598	B-3
D599	D-4
D601	B-2
D602	C-2
D604	C-2
D605	C-1
D607	C-1
D608	C-2
D609	C-1
D610	B-1
D611	B-2
D613	B-1
D614	C-2
D617	B-2
D618	C-1
D620	B-1
D621	E-2
D651	E-3
D901	D-2
D902	D-2
D904	D-3
D907	E-1
D909	D-3
D910	E-1
D911	E-1
D912	E-1
D913	E-1
D914	D-3
D915	D-1
D916	D-1
D917	D-1
D918	D-1
D1801	E-4
D1802	E-3
D1808	E-1

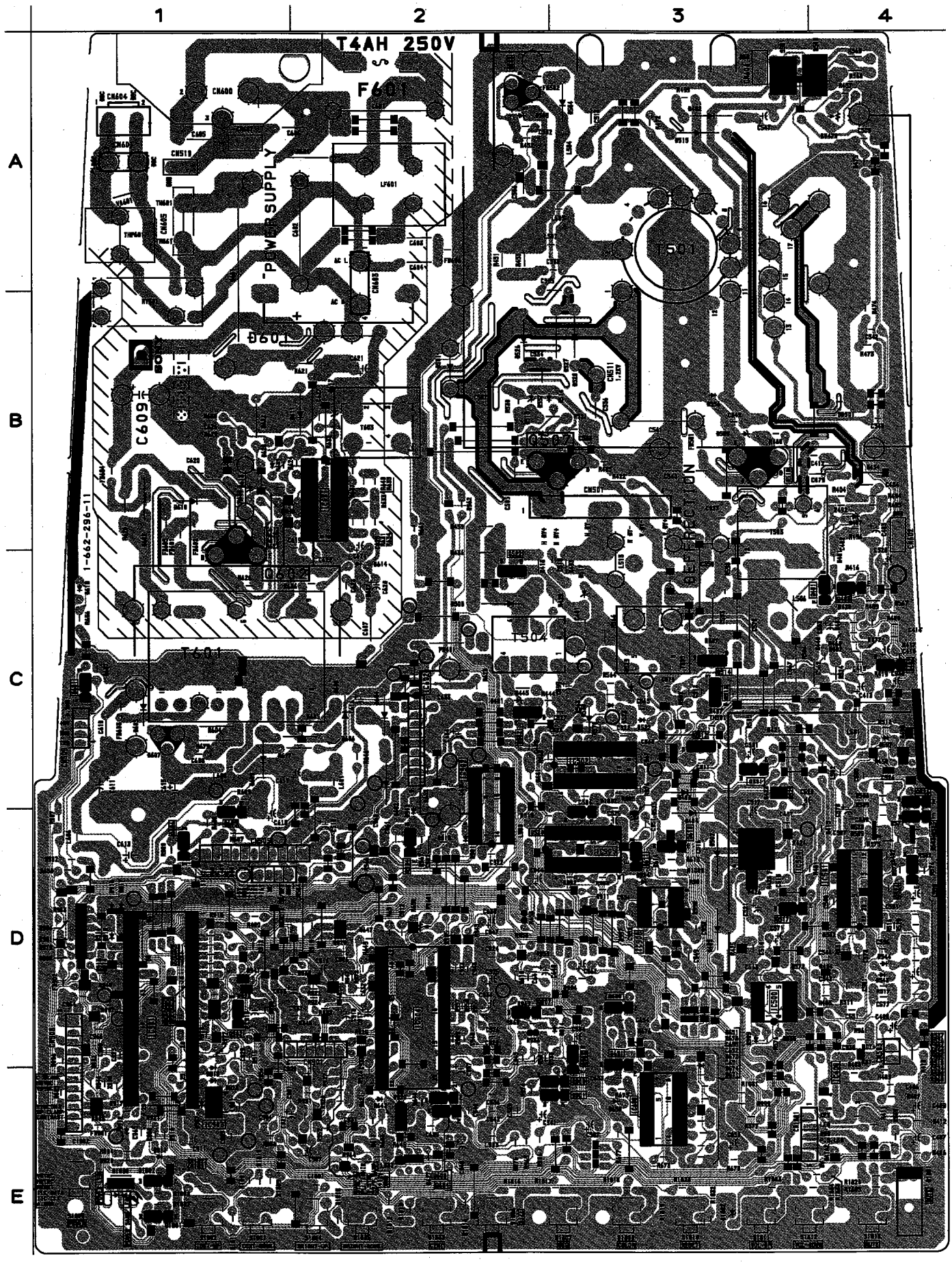
VARIABLE RESISTOR	
RV470	A-4
RV601	D-2

CRYSTAL	
X900	E-1

NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

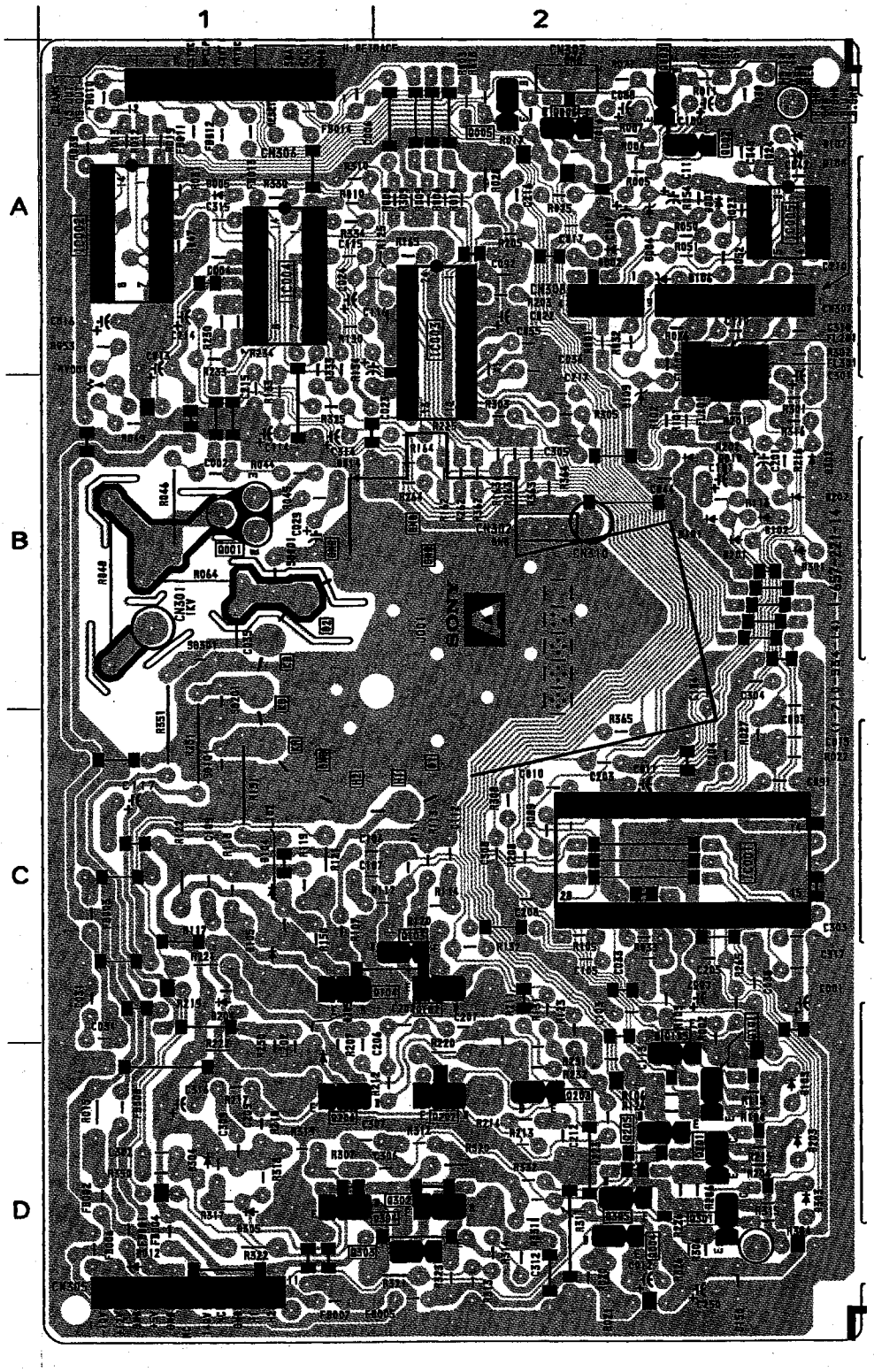
D [POWER DEFLECTION]

— D Board —



A [VIDEO]

— A Board —



● A BOARD SEMICONDUCTOR LOCATION

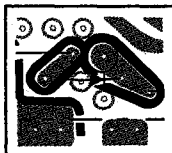
IC	
IC001	C–2
IC002	A–1
IC003	A–2
IC004	A–1
IC005	A–2

TRANSISTOR	
Q001	B–1
Q002	A–2
Q003	A–2
Q004	D–2
Q005	A–2
Q101	D–2
Q102	C–2
Q103	C–2
Q104	C–1
Q105	D–2
Q201	D–2
Q202	D–2
Q203	D–2
Q204	D–1
Q205	D–2
Q301	D–2
Q302	D–2
Q303	D–2
Q304	D–1
Q305	D–2

DIODE	
D002	A–2
D003	A–2
D004	A–2
D005	A–1
D010	B–2
D012	D–1
D014	B–1
D101	B–2
D102	B–2
D103	D–2
D104	C–1
D105	C–1
D106	A–2
D107	A–2
D108	A–2
D109	B–2
D201	B–2
D202	B–2
D203	D–2
D204	C–1
D205	D–1
D301	B–2
D302	B–2
D303	D–2
D304	D–1
D305	D–1
Q006	A–2

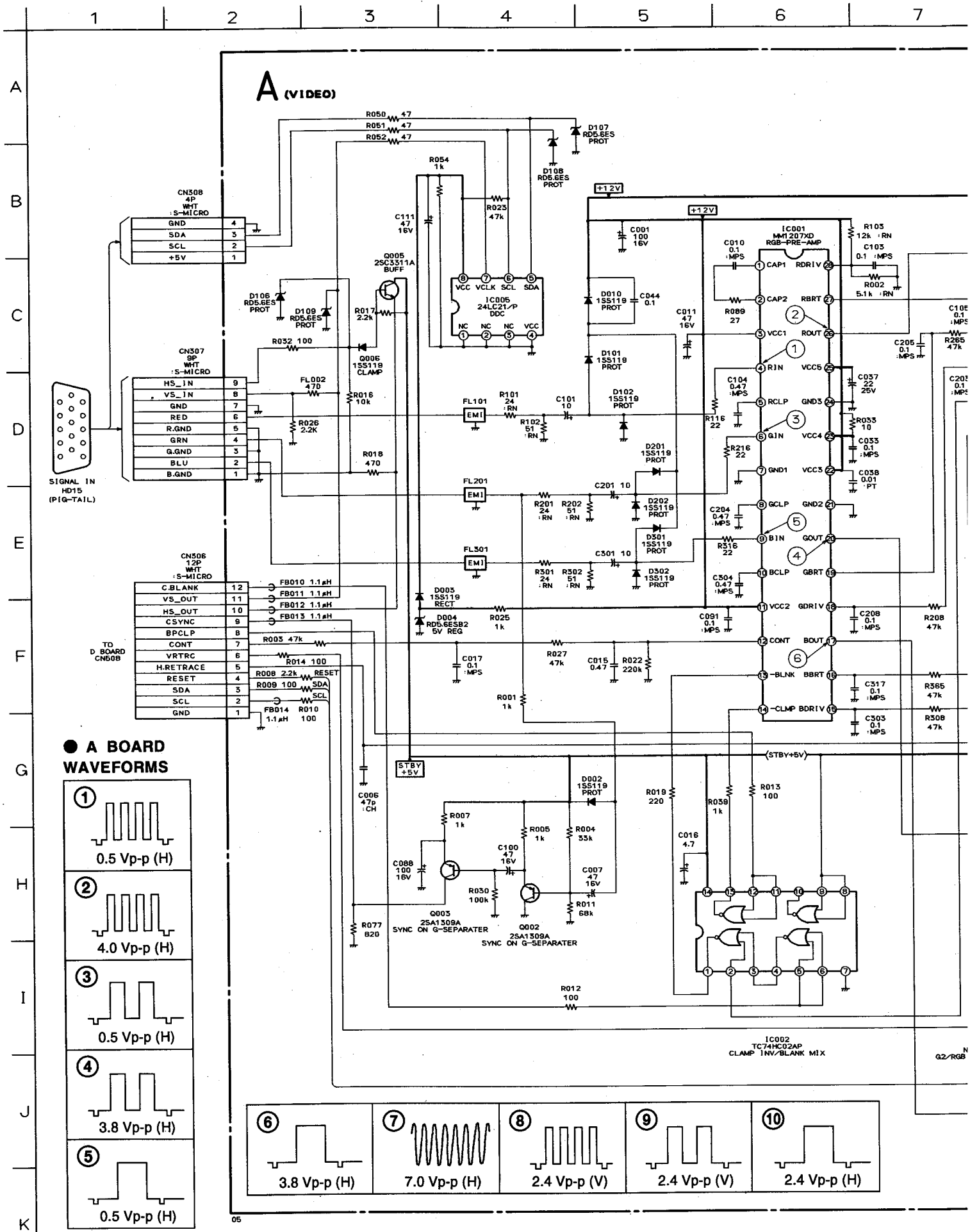
VARIABLE RESISTOR	
RV001	A–1

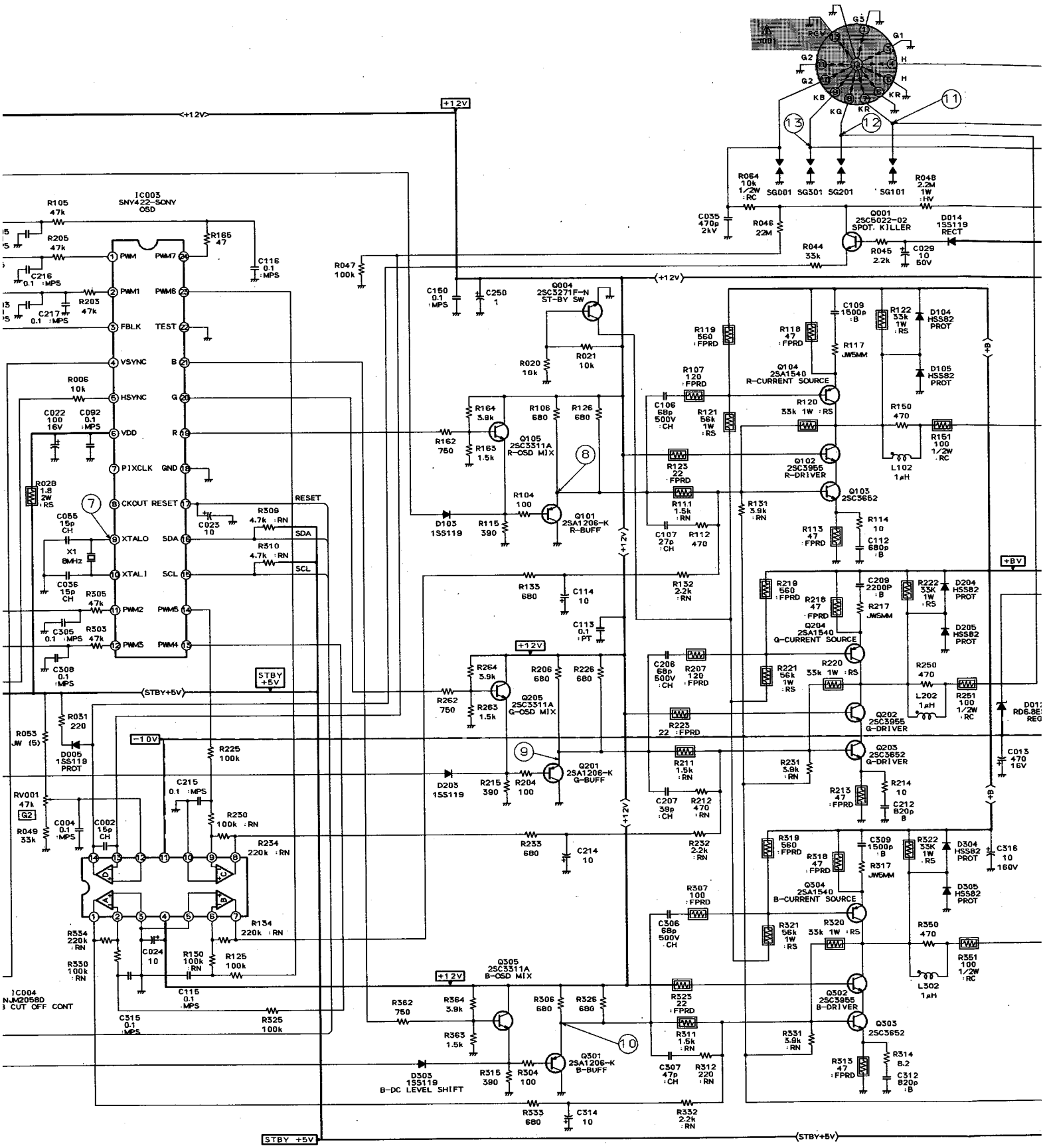
CRYSTAL	
X1	A–2

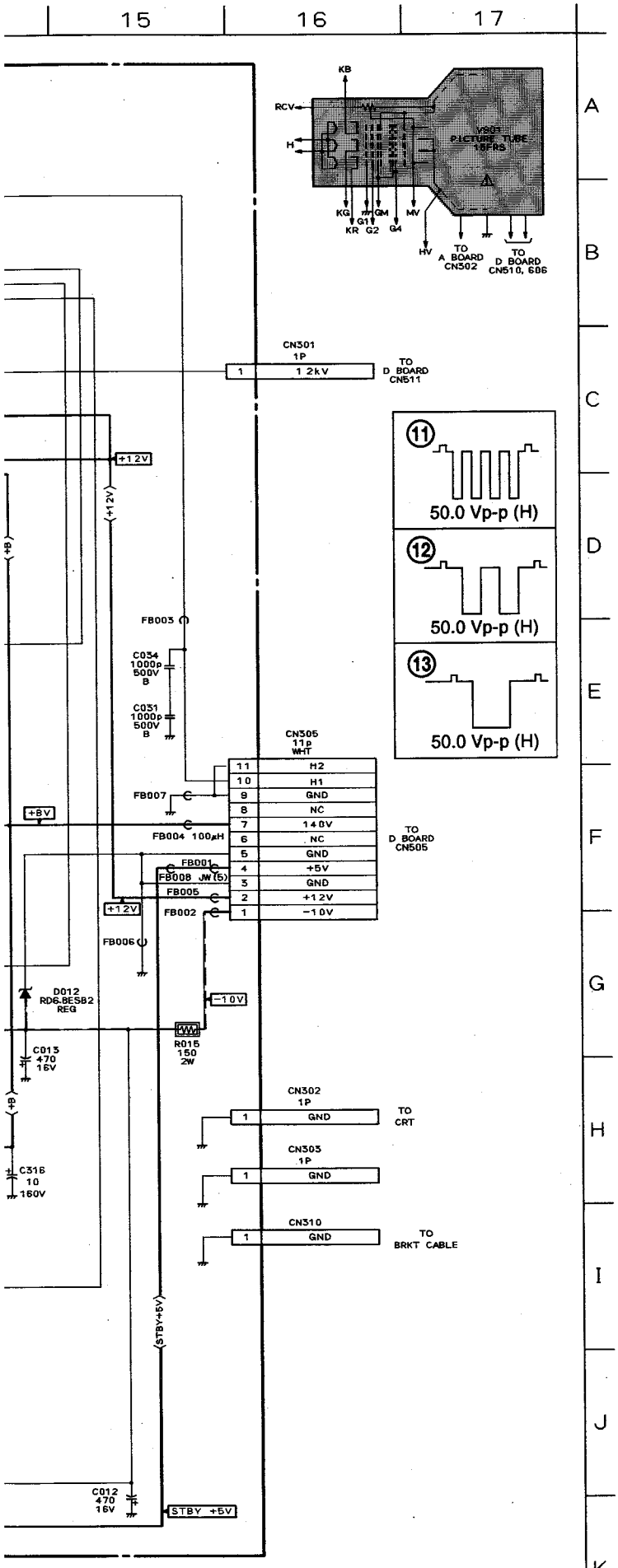


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(2) Schematic Diagram of A Board




8
9
10
11
12
13
14
+12V
+B
STBY +5V
-10V
IC003
SNY422-SONY
OSD
IC004
NJM2058D
CUT OFF CONT
Q001
2SC5022-02
SPOT. KILLER
Q004
2SC3271F-N
ST-BY SW
Q105
2SC3311A
R-OSD MIX
Q101
2SA1206-K
R-BUFF
Q104
2SA1540
R-CURRENT SOURCE
Q102
2SC3955
R-DRIVER
Q103
2SC3652
Q205
2SC3311A
G-OSD MIX
Q201
2SA1206-K
G-BUFF
Q204
2SA1540
G-CURRENT SOURCE
Q202
2SC3955
G-DRIVER
Q203
2SC3652
G-DRIVER
Q305
2SC3311A
B-OSD MIX
Q301
2SA1206-K
B-BUFF
Q304
2SA1540
B-CURRENT SOURCE
Q302
2SC3955
B-DRIVER
Q303
2SC3652
SG001
SG301
SG201
SG101
D103
1SS119
D203
1SS119
D303
1SS119
B-DC LEVEL SHIFT
D005
1SS119
PROT
D014
1SS119
RECT
D104
HSS82
PROT
D105
HSS82
PROT
D204
HSS82
PROT
D205
HSS82
PROT
D304
HSS82
PROT
D305
HSS82
PROT
L102
1μH
L202
1μH
L302
1μH
RESET
SDA
SCL
PWM
PWM1
PWM2
PWM3
PWM4
PWM5
PWM6
PWM7
FBLK
TEST
VSYNC
HSYNC
VDD
PIXCLK
GND
CKOUT
XTALO
XTALI
R
G
B
RV001
47k
G2
R049
33k
R053
JW (5)
R031
220
R105
47k
R205
47k
R165
47
R203
47k
R006
10k
R028
1.8
2W
:RS
C055
15p
CH
X1
8MHz
C036
15p
CH
R305
47k
R303
47k
C305
0.1
:MPS
C308
0.1
:MPS
C216
0.1
:MPS
C217
0.1
:MPS
C116
0.1
:MPS
C022
100
16V
C082
0.1
:MPS
C023
10
R309
4.7k
:RN
R310
4.7k
:RN
C004
0.1
:MPS
C002
15p
CH
R230
100k
:RN
R234
220k
:RN
R134
220k
:RN
R534
220k
:RN
R530
100k
:RN
C024
10
R150
100k
:RN
R125
100k
C115
0.1
:MPS
C315
0.1
:MPS
R325
100k
C215
0.1
:MPS
R225
100k
R047
100k
C150
0.1
:MPS
C250
1
R020
10k
R021
10k
R164
3.9k
R163
1.5k
R162
750
R106
680
R126
680
R104
100
R115
390
R133
680
C114
10
C113
0.1
:PT
R132
2.2k
:RN
R264
3.9k
R263
1.5k
R262
750
R206
680
R226
680
R204
100
R215
390
R233
680
C214
10
R232
2.2k
:RN
R364
3.9k
R363
1.5k
R362
750
R306
680
R326
680
R304
100
R315
390
R333
680
C314
10
R332
2.2k
:RN
R064
10k
1/2W
:RC
R048
2.2M
1W
:HV
C035
470p
2kV
R046
22M
R044
33k
R045
2.2k
C029
10
50V
R119
560
:FPRD
R118
47
:FPRD
R117
JW5MM
C109
1500p
:B
R122
33k
1W
:RS
R107
120
:FPRD
R120
33k 1W :RS
R121
56k
1W
:RS
C106
68p
500V
:CH
R123
22
:FPRD
R111
1.5k
:RN
C107
27p
:CH
R112
470
R131
3.9k
:RN
R113
47
:FPRD
R114
10
C112
680p
:B
R150
470
R151
100
1/2W
:RC
R219
560
:FPRD
R218
47
:FPRD
R217
JW5MM
C209
2200P
:B
R222
33K
1W
:RS
R221
56k
1W
:RS
R220
33k 1W :RS
R223
22
:FPRD
R211
1.5k
:RN
C208
68p
500V
:CH
R207
120
:FPRD
C207
39p
:CH
R212
470
:RN
R250
470
L202
1μH
R251
100
1/2W
:RC
R231
3.9k
:RN
R213
47
:FPRD
R214
10
C212
820p
B
C013
470
16V
R319
560
:FPRD
R318
47
:FPRD
R317
JW5MM
C309
1500p
:B
R322
33K
1W
:RS
C316
10
160V
R307
100
:FPRD
C306
68p
500V
:CH
R321
56k
1W
:RS
R320
33k 1W :RS
R350
470
R351
100
1/2W
:RC
R325
22
:FPRD
R311
1.5k
:RN
C307
47p
:CH
R312
220
:RN
R331
3.9k
:RN
R313
47
:FPRD
R314
8.2
C312
820p
:B



● A BOARD
VOLTAGE LIST

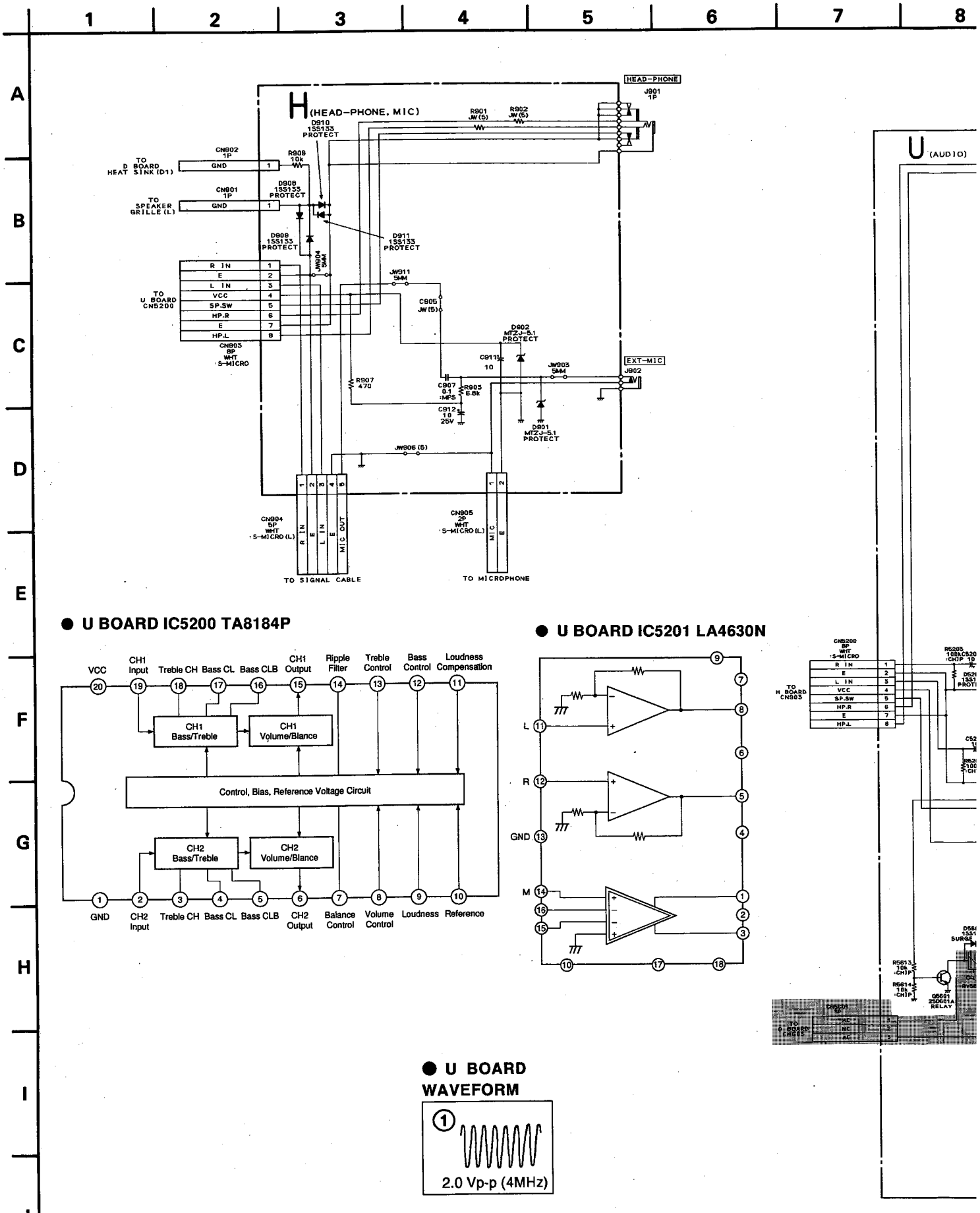
Ref.	Pin No.	Voltage [V]
IC001	1	5.5
	2	5.5
	4	2.9
	5	8.2
	6	2.9
	8	8.5
	9	2.9
	10	8.7
	12	2.7
	13	4.7
	14	5.2
	15	2.2
	16	1.8
	17	2.6
	18	2.9
	19	1.8
	20	2.7
	26	2.7
	27	1.8
	28	3.7
IC002	1	4.7
	2	0
	3	0.6
	4	0.6
	5	4.7
	6	4.7
	11	0.2
	12	0.2
	13	5.2
	14	5.2
IC003	1	1.8
	2	2.9
	3	0
	4	0.2
	5	0.4
	9	2.4
	10	2.2
	11	1.9
	12	2.3
	13	4.1
	14	4.2
	15	4.8
	16	4.9
	17	5.2
	19	0.2
	20	0.2
	23	3.6
	24	1.8
IC004	1	-4.4
	2	0
	3	0
	5	0
	6	0
	7	-3.8
	8	-4.5
	9	0
	10	0
	11	-6.9
	12	3.8
	13	3.8
	14	5.9
IC005	5	5.3
	6	5.3
	7	5.2

Ref.	Pin No.	Voltage [V]
Q001	B	11.6
	E	11.1
Q002	B	3.6
	E	4.3
Q003	B	4.3
	C	0.7
	E	4.5
Q004	B	0.8
	C	0.2
Q005	B	0
	C	5.2
	E	0
Q101	B	2.2
	E	3.0
Q102	C	98.1
	E	11.6
Q103	B	1.4
	C	11.6
	E	0.7
Q104	B	142.1
	C	98.1
	E	142.7
Q105	B	1.5
	E	3.0
Q201	B	2.2
	E	3.0
Q202	C	104.9
	E	11.6
Q203	B	1.4
	C	11.6
	E	0.7
Q204	B	142.1
	C	104.9
	E	142.8
Q205	B	1.5
	E	2.1
Q301	B	2.1
	E	2.9
Q302	C	105.1
	E	11.6
Q303	B	1.4
	C	11.6
	E	0.7
Q304	B	142.1
	C	105.1
	E	142.8
Q305	B	1.5
	E	2.1

Schematic diagram
← A board

Schematic diagrams
H U boards →

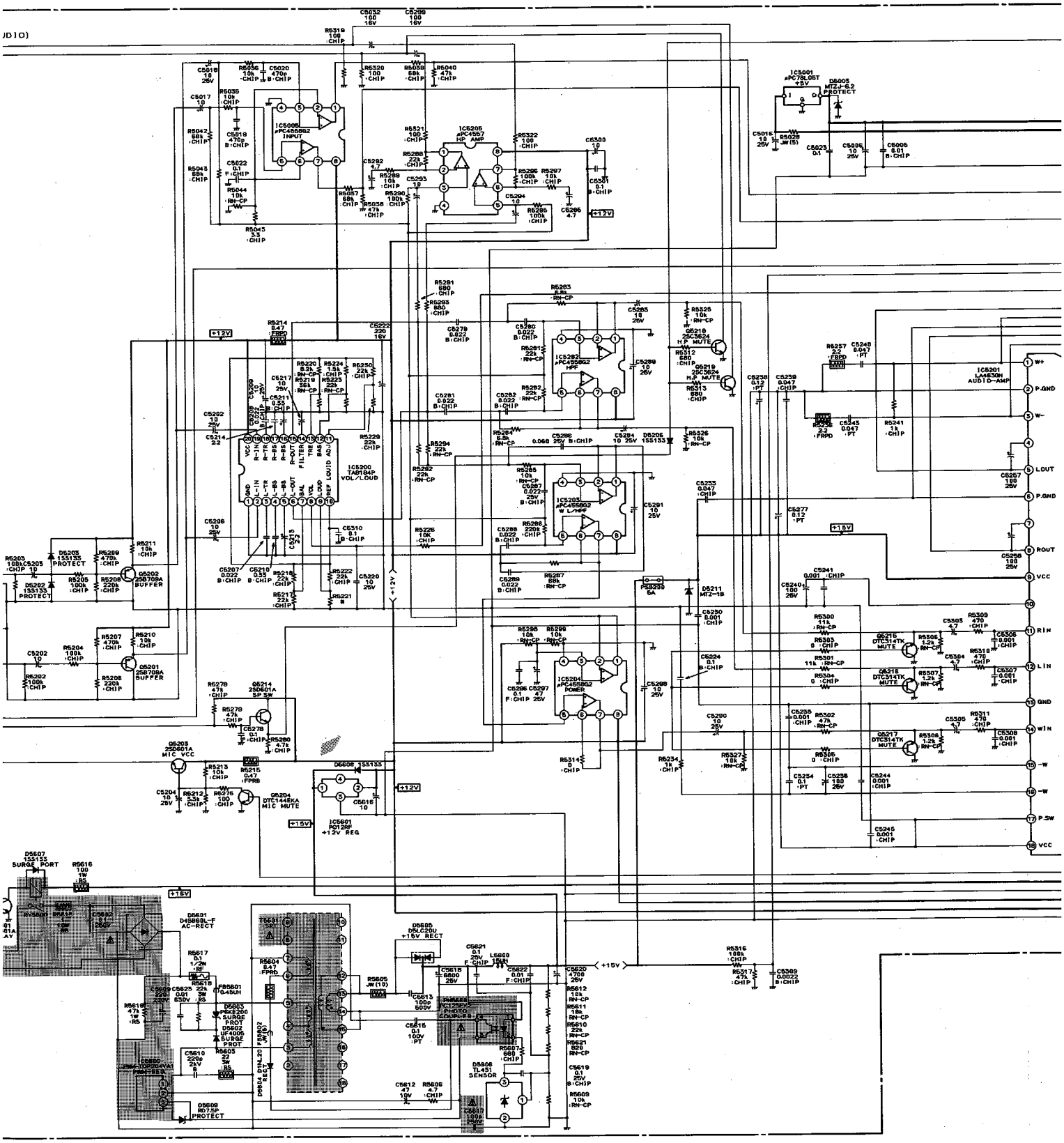
(3) Schematic Diagrams of H, U Boards

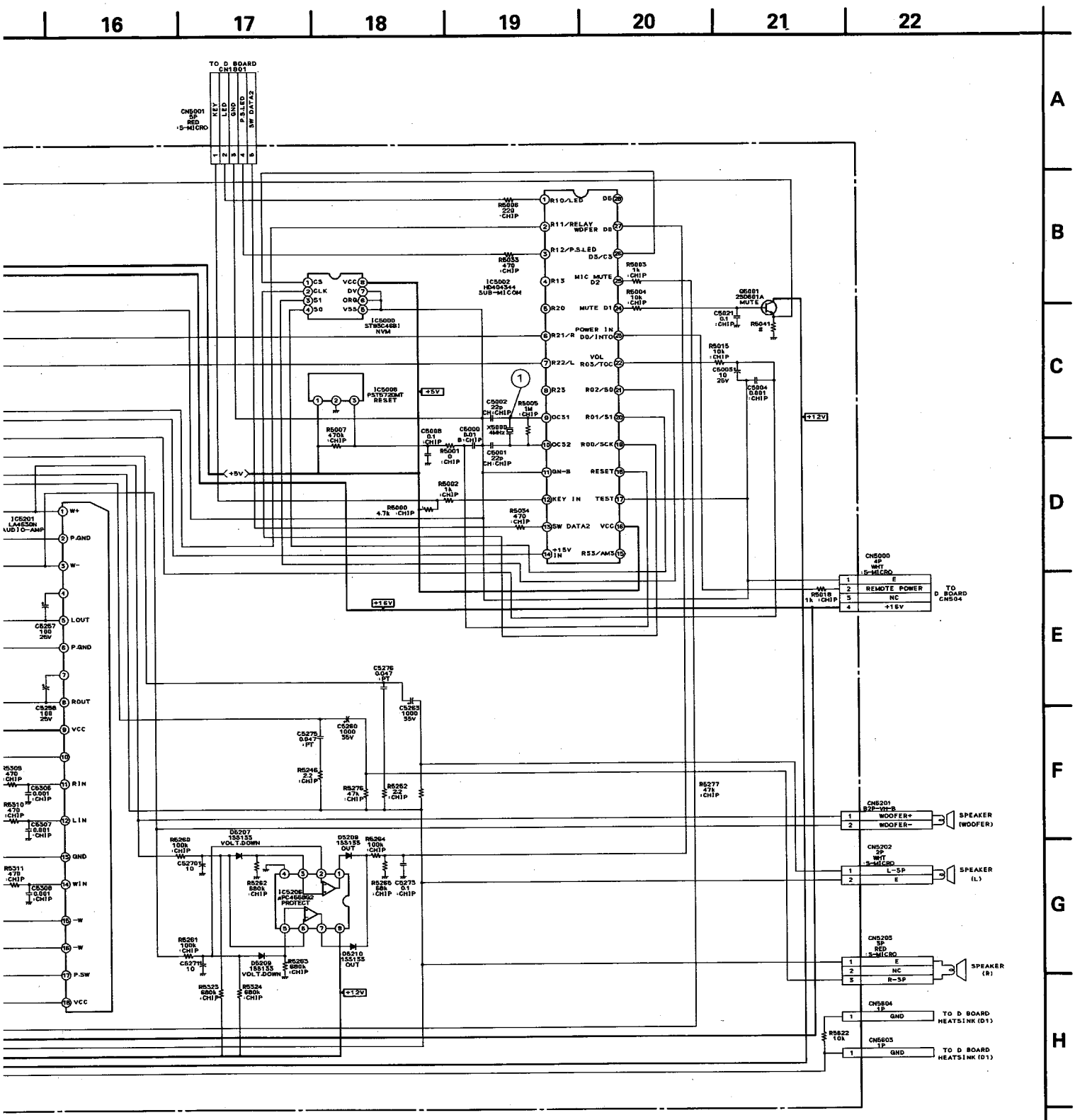


● U BOARD IC5200 TA8184P

● U BOARD IC5201 LA4630N

● U BOARD WAVEFORM


8
9
10
11
12
13
14
15
IC5001 μPC78L05T +5V
D5005 MTZJ-6.2 PROTECT
IC5006 μPC4558G2 INPUT
IC5205 μPC4557 HP AMP
IC5300 TA8184P VOL/LOUD
IC5201 LA4630N AUDIO-AMP
IC5202 μPC4558G2 HPF
IC5203 μPC4558G2 W L/HPF
IC5204 μPC4558G2 POWER
+12V
+15V
+18V
W+
P.GND
W-
LOUT
P.GND
ROUT
VCC
RIN
LIN
GND
WIN
-W
-W
P.SW
VCC
SURGE PORT
AC-RECT
+15V REG
+12V REG
MIC MUTE
MUTE
SENSOR
PROTECT
SURGE PROT
BUFFER


16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
TO D BOARD CN1801
CN5001 5P RED :5-MICRO
KEY
LED
GND
P.S.LED
SW DATA2
IC5000 ST62C48B1 NVM
IC5002 HD404644 SUB-MICOM
IC5006 PST572UMT RESET
IC5201 LA4630N AUDIO-AMP
IC5305 μPC4558G2 PROTECT
Q5821 2SD601A MUTE
Q5041
CN5000 4P WHT :5-MICRO
REMOTE POWER
TO D BOARD CN804
CN6201 B2P-VH-B
WOOFER+
WOOFER-
SPEAKER (WOOFER)
CN5202 2P WHT :5-MICRO
L-SP
SPEAKER (L)
CN5203 3P RED :5-MICRO
R-SP
SPEAKER (R)
CN5804 1P
GND
TO D BOARD HEATSINK (D1)
CN5805 1P
GND
TO D BOARD HEATSINK (D1)
+5V
+12V
+15V
W+
P.GND
W-
LOUT
ROUT
VCC
RIN
LIN
GND
WIN
P.SW
MIC MUTE
MUTE
POWER IN
VOL
REMOTE POWER
SW DATA2
KEY IN
RESET
TEST

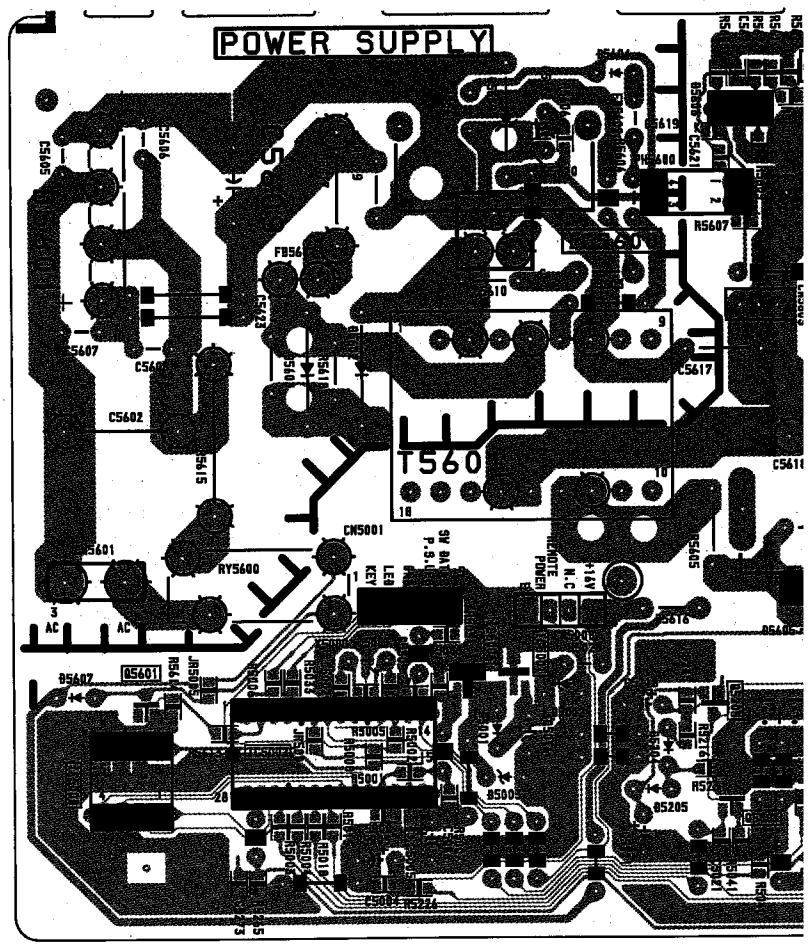
U [AUDIO] H [HEAD-PHONE, MIC]

● U BOARD VOLTAGE LIST

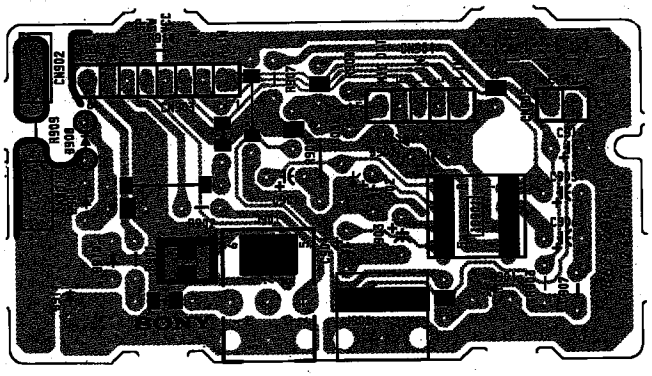
Ref.	Pin No.	Voltage [V]
IC5000	1	0
	2	0
	3	0
	4	0.9
IC5001	IN	17.4
	OUT	5.0
IC5002	1	5.1
	2	5.0
	3	5.1
	6	4.6
	7	4.6
	9	2.3
	10	2.4
	12	5.0
	13	5.0
	14	4.8
	18	5.1
	19	0
	20	0.7
	21	0
	22	1.8
	23	5.1
	24	0
	25	0
	26	0
	27	0
IC5005	1	11.2
	2	6.0
	3	5.9
	5	5.9
	6	6.0
	7	11.2
IC5006	3	5.1
IC5200	2	6.6
	3	8.6
	4	8.6
	5	8.4
	6	5.9
	7	2.6
	8	1.8
	9	1.8
	10	5.1
	11	0
	12	2.6
	13	3.6
	14	6.0
	15	5.9
	16	8.4
	17	8.6
	18	8.6
	19	6.5
IC5201	1	7.0
	3	6.9
	4	14.1
	5	7.6
	7	14.1
	8	7.7
	10	7.4
	12	1.4
	14	0
	15	1.3
	16	1.4
	17	15.0
IC5202	1	6.0
	2	6.0
	3	6.0

Ref.	Pin No.	Voltage [V]
IC5202	5	6.0
	6	6.0
	7	6.0
IC5203	1	5.9
	2	5.9
	3	5.9
	5	5.9
	6	6.0
	7	6.0
IC5204	1	6.0
	2	6.0
	3	6.0
	5	6.0
	6	6.0
	7	6.0
IC5205	1	6.0
	2	6.0
	3	5.9
	5	5.9
	6	6.0
	7	6.0
IC5206	1	1.3
	2	6.0
	3	5.8
	5	5.6
	6	6.1
	7	1.3
IC5600	1	142.5
	2	0
	3	5.9
PH5600	2	13.8
	3	5.9
	4	10.1
Q5001	B	0
	E	−0.1
Q5201	B	4.3
	E	5.0
Q5202	B	4.3
	E	5.0
Q5203	B	2.9
	E	2.3
Q5204	B	0
	C	2.9
Q5214	B	0
	E	3.9
Q5215	B	0.9
	E	0
Q5216	B	0.9
	E	0
Q5217	B	0.9
	E	0
Q5218	B	0.7
	C	0
Q5219	B	0.7
	C	0
Q5601	B	0.8
	C	0.2

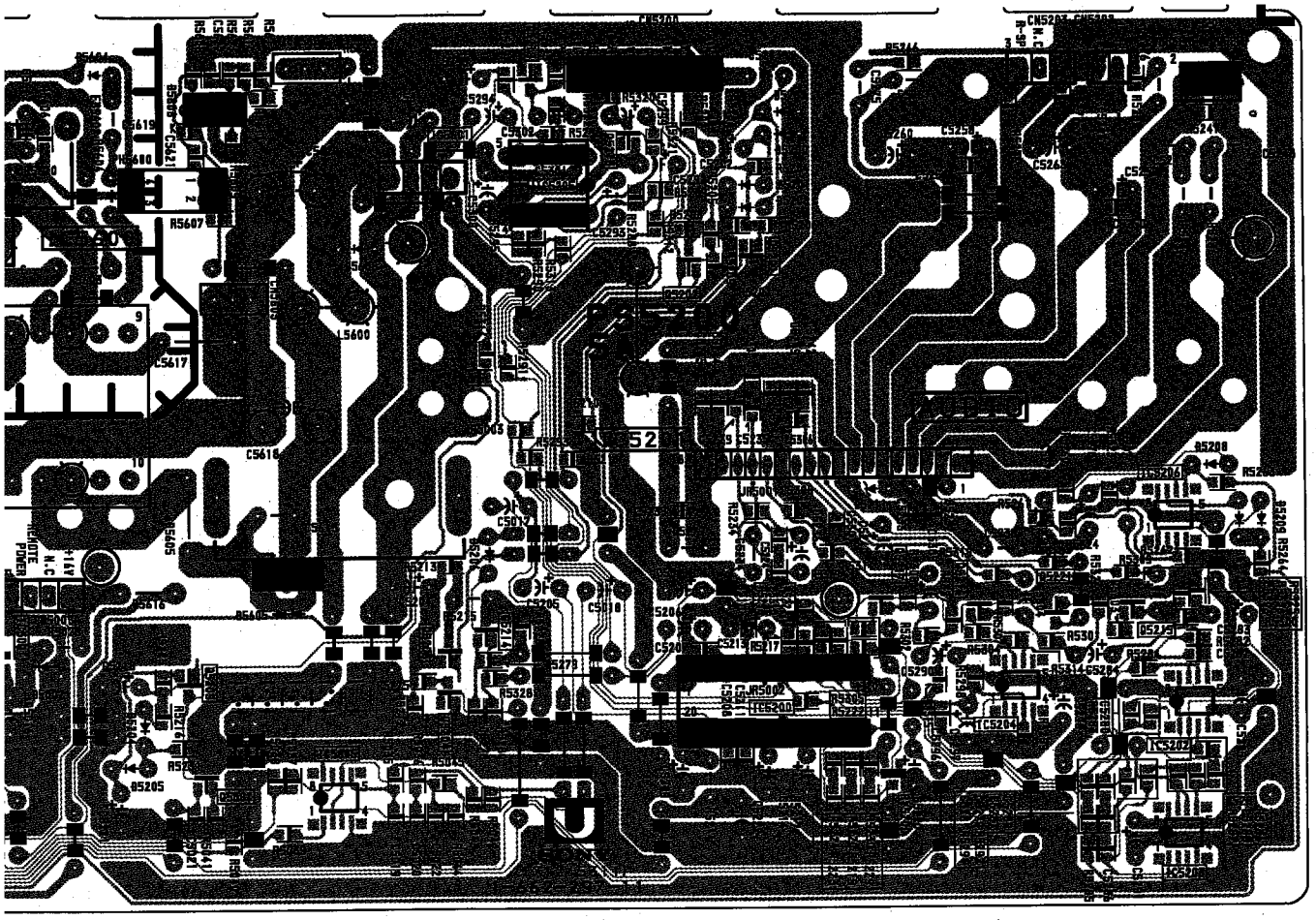
— U Board —

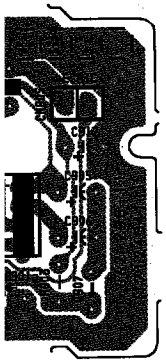


— H Board —



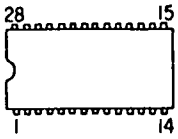
AD-PHONE, MIC]





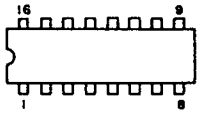
5-4. SEMICONDUCTORS

HD4033-A97S
LM1207N
MM1207XD



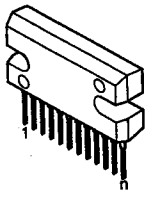
(Top view)

HD74HC123AP
TEA2262

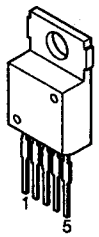


(TOP VIEW)

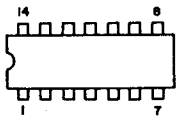
LA4630N



LA6500-FA

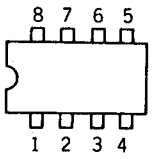


MC14066BCP
MC14584BCP
NJM2058D
TC74HC02AP



(TOP VIEW)

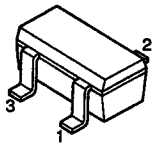
NJM082BD
NJM2903D
SN74HC02AN
ST93C46CB1
TL082ACP
µPC4557C
24LC21/P



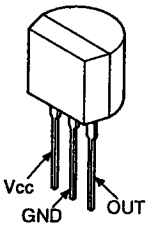
(Top view)

PQ12RF1

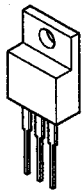
PST572DMT



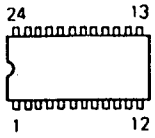
PST600D-T



PWR-TOP204YAI-BB

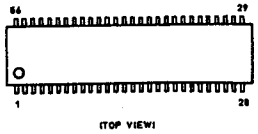


SNY422-SONY



(Top view)

ST7271N58B1/CCK

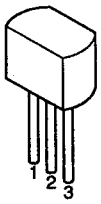


(TOP VIEW)

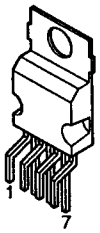
TA8184P

TOP VIEW

TDA8138



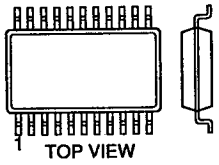
TDA8172



TDA9103

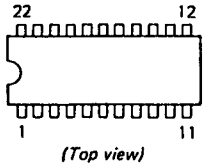
TL431CLP

µPC4558G2



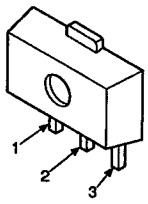
TOP VIEW

µPC5023CS-095

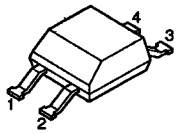


(Top view)

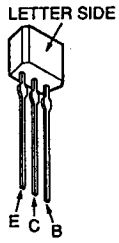
µPC78L05T



PC123F2
PC123FY2



DTA124ESA
DTC124ESA
2SA1048-YGR
2SA1175-HFE
2SA1309A
2SC2785-HFE
2SC3311A



DTC144EKA
DTC314TKH04
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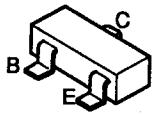
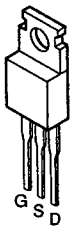
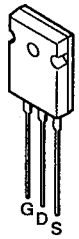
2SB709A
2SC3624
2SD601A-Q



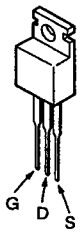
IRFPE40LF20
IRF9630G-LF
IRLI530G



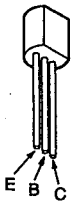
IRFPC40



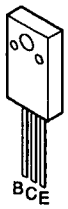
IRF614



2SA1206-K1



2SA1540-DE



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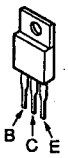
2CB1375
2SC5022-02
2SC5129 (LB SONY)



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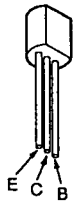
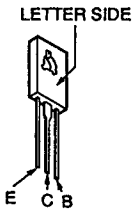
2SC3941A-Q



2SC2611
2SC3271F-N
2SC3652



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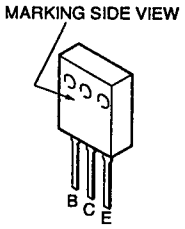

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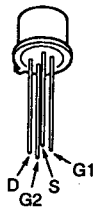
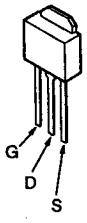
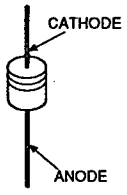


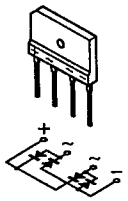
2SK738



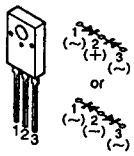
D1N20R
EGP10G
MTZJ-T-77-6.2
MTZJ-6.2
RD10ES-B2
RD12ES-B2
RD15ES-B2
RD18ES-B2
RD2.7ES-B2
RD27ES-B2
RD4.7ES-B2
RD5.6ES-B1
RD5.6ES-B2
RD6.2ES-B
RD6.8ES-B2
1SS119-25



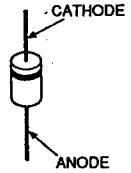
D4SB60L
GBU4JL-6088



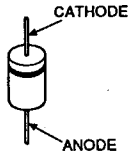
D5LC20U
D8LC20U



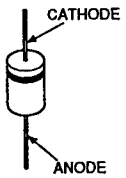
EGP10D
P6KE200AG23
RH1A



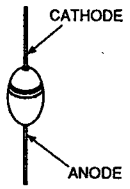
EGP30D
SB340



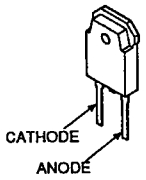
GP08D
GP08DPKG23
GP104005-E
HSS82
MTZJ-T-77-18
RD7.5F-B
RD7.5F-B3
RGP02-20EL-6394
RGP10D
UF3ML-6505
UF4005
UF4007G23
1SS82
1SS83
3DL41A



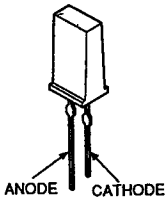
U05G



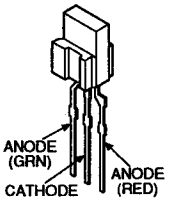
5TUZ52



SEL1422G
SEL1922D-C



SPB-26MVWF



SECTION 6
EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

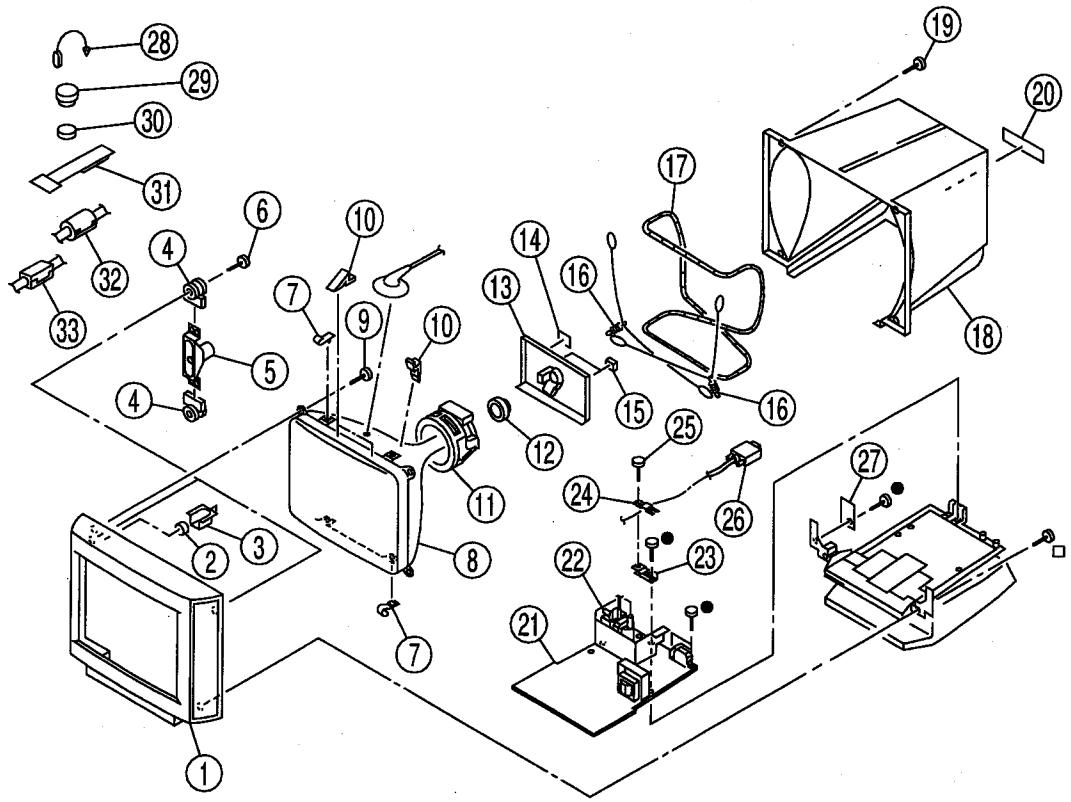
NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. CHASSIS

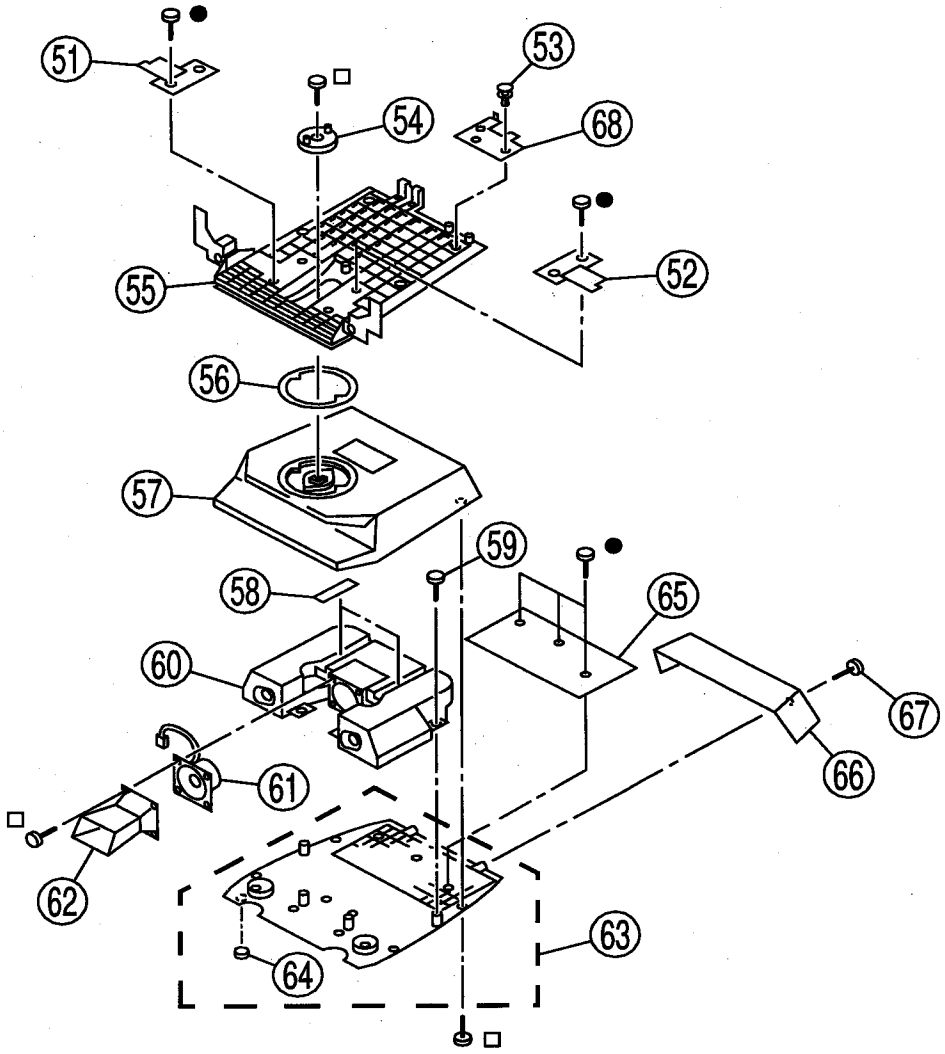
● 7-685-648-79 +BVTP 3X12
□ 7-685-663-71 +BVTP 4X16



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4033-770-1	BEZEL ASSY	
2	1-542-302-11	MICROPHONE ASSY	
3	*4-054-669-01	HOLDER, MICROPHONE	
4	*4-054-668-01	HOLDER, SPEAKER	
5	1-505-439-11	SPEAKER (3X10CM)	
6	4-384-096-01	SCREW (4X16), TAPPING, +P	
7	4-045-123-01	HOLDER, DEGAUSSING COIL	
8	⚠8-734-833-05	PICTURE TUBE (15FRS)	
9	4-365-808-01	SCREW (5), TAPPING	
10	4-050-492-01	SPACER, DY	
11	⚠8-451-469-21	DEFLECTION YOKE (Y15FRF2M2)	
12	⚠1-452-756-11	NECK ASSY, PICTURE TUBE (NA293)	
13	*8-933-131-00	A BOARD, COMPLETE	
14	*4-046-834-01	LABEL, X-RAY	
15	*4-050-329-01	CUSHION (A)	
16	4-369-318-00	SPRING, TENSION	
17	⚠1-409-799-21	COIL, DEMAGNETIZATION	
18	4-054-665-01	CABINET	
19	4-052-070-01	SCREW +BVTP 4X16	
20	*4-054-718-01	LABEL, MODEL NUMBER	
21	*8-933-205-00	D BOARD, COMPLETE	
22	⚠X-4033-083-1	TRANDFORMER ASSY, FLYBACK (NX-4130//J1E)	
23	*4-045-130-01	BRACKET, CABLE	
24	*4-054-667-01	STOPPER, CABLE	
25	4-381-962-11	SCREW +BVTT 4X8 (S)	
26	1-777-476-11	CABLE ASSY (15P DSUB CONNECTOR)	
27	*8-933-207-00	H BOARD, COMPLETE	
28	4-308-870-00	CLIP, LEAD WIRE	
29	1-452-032-00	MAGNET,DISC : 10mmϕ	
30	1-452-094-00	MAGNET, ROTATABELE DISK : 15mmϕ	
31	X-4030-584-1	PERMALLOY ASSY, CONVERGENCE	
32	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
33	1-543-793-11	FILTER, CLAMP (FERRITE CORE)	

6-2. STAND BLOCK

● 7-685-648-79 +BVTP 3X12
□ 7-685-663-71 +BVTP 4X16



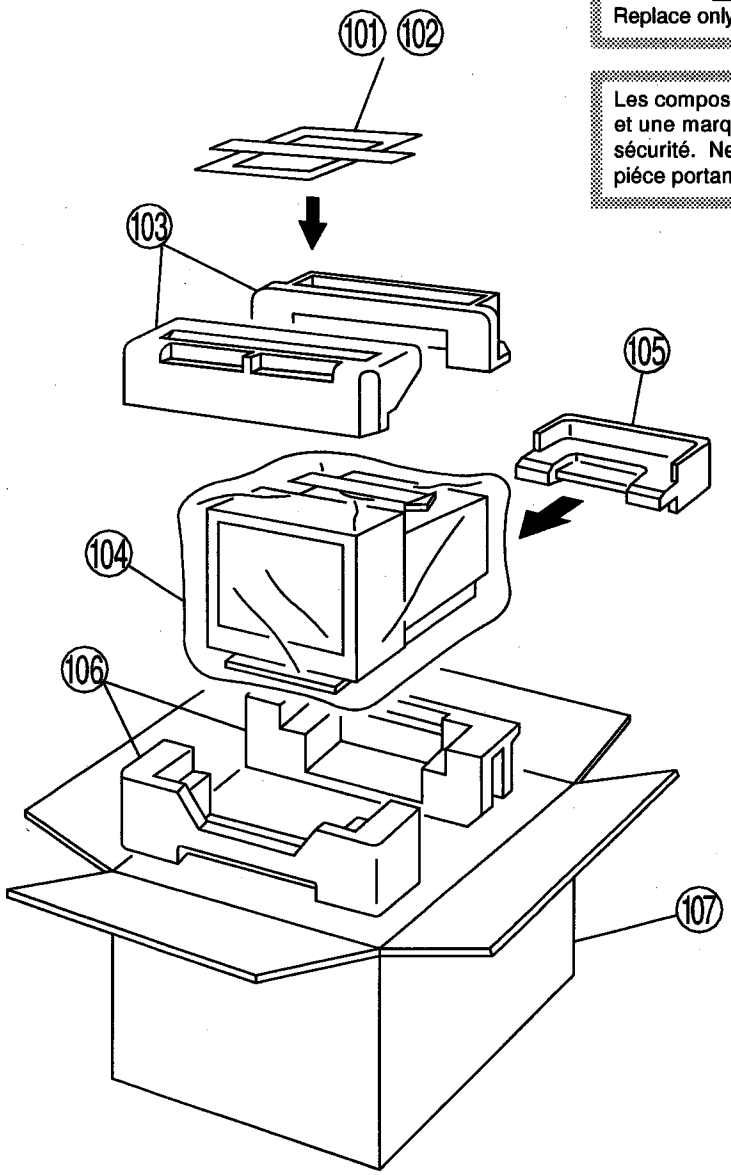
REF.NO.	PART NO.	DESCRIPTION	REMARK
51	*4-054-685-01	COVER (L), CABLE	
52	*4-054-684-01	COVER (R), CABLE	
53	4-812-134-00	RIVET (DIA. 3.5), NYLON	
54	4-045-121-01	STOPPER (A), STAND	
55	4-054-678-01	COVER, BOTTOM	
56	4-045-122-01	RING, TILT SWIVEL	
57	X-4033-771-1	BASE (UPPER) ASSY, STAND	
58	*4-054-687-01	CUSHION, CABLE	
59	4-384-096-01	SCREW (4X16), TAPPING, +P	
60	X-4033-848-1	BOX ASSY, SPEAKER	
61	1-505-440-11	SPEAKER (7CM)	
62	*X-4033-863-1	HORN ASSY, FRONT	
63	X-4033-845-1	BASE (LOWER) ASSY, STAND	64
64	4-047-474-01	FOOT, RUBBER	
65	*8-933-206-00	U BOARD, COMPLETE	
66	4-054-666-01	BASE (REAR), STAND	
67	4-052-070-01	SCREW +BVTP 4X16	
68	*4-055-361-01	SHIELD, D	

6-3. PACKING MATERIALS

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	3-858-105-11	MANUAL, INSTRUCTION	
102	⚠1-534-827-14	CORD, POWER 10A/125V	
103	*4-054-689-01	CUSHION (UPPER) (ASSY)	
104	*4-381-155-11	BAG, PROTECTION	
105	*4-054-695-01	PAD, TILT FIXED	
106	*4-054-692-01	CUSHION (LOWER) (ASSY)	
107	*4-054-688-01	INDIVIDUAL CARTON	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*8-933-131-00	A BOARD, COMPLETE			
		**********			
	*X-4033-626-1	COVER ASSY, VIDEO			
	4-382-854-11	SCREW (M3X10), P, SW (+) (Q102, Q104,Q202, Q204, Q302, Q304)			
		<CAPACITOR>			
C001	1-126-933-11	ELECT	100MF	20%	16V
C002	1-102-951-00	CERAMIC	15pF	5%	50V
C004	1-136-165-00	FILM	0.1MF	5%	50V
C006	1-102-852-91	CERAMIC	47pF	5%	50V
C007	1-126-967-11	ELECT	47MF	20%	16V
C010	1-136-165-00	FILM	0.1MF	5%	50V
C011	1-126-967-11	ELECT	47MF	20%	16V
C012	1-126-935-11	ELECT	470MF	20%	16V
C013	1-126-935-11	ELECT	470MF	20%	16V
C015	1-136-173-00	FILM	0.47MF	5%	50V
C016	1-126-963-11	ELECT	4.7MF	20%	50V
C017	1-136-165-00	FILM	0.1MF	5%	50V
C022	1-126-933-11	ELECT	100MF	20%	16V
C023	1-126-964-11	ELECT	10MF	20%	50V
C024	1-126-964-11	ELECT	10MF	20%	50V
C029	1-126-964-11	ELECT	10MF	20%	50V
C031	1-162-318-11	CERAMIC	0.001MF	10%	500V
C033	1-136-165-00	FILM	0.1MF	5%	50V
C034	1-162-318-11	CERAMIC	0.001MF	10%	500V
C035	1-162-134-11	CERAMIC	470pF	10%	2KV
C036	1-102-951-00	CERAMIC	15pF	5%	50V
C037	1-128-551-11	ELECT	22MF	20%	25V
C038	1-137-370-11	FILM	0.01MF	5%	50V
C044	1-136-165-00	FILM	0.1MF	5%	50V
C055	1-102-951-00	CERAMIC	15pF	5%	50V
C088	1-126-933-11	ELECT	100MF	20%	16V
C091	1-136-165-00	FILM	0.1MF	5%	50V
C092	1-136-165-00	FILM	0.1MF	5%	50V
C100	1-126-967-11	ELECT	47MF	20%	16V
C101	1-126-964-11	ELECT	10MF	20%	50V
C103	1-136-165-00	FILM	0.1MF	5%	50V
C104	1-136-173-00	FILM	0.47MF	5%	50V
C105	1-136-165-00	FILM	0.1MF	5%	50V
C106	1-107-608-11	CERAMIC	68pF	5%	500V
C107	1-102-516-11	CERAMIC	27pF	5%	50V
C109	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C111	1-126-967-11	ELECT	47MF	20%	16V
C112	1-102-116-00	CERAMIC	680pF	10%	50V
C113	1-136-165-00	FILM	0.1MF	5%	50V
C114	1-126-964-11	ELECT	10MF	20%	50V
C115	1-136-165-00	FILM	0.1MF	5%	50V
C116	1-136-165-00	FILM	0.1MF	5%	50V
C150	1-136-165-00	FILM	0.1MF	5%	50V
C201	1-126-964-11	ELECT	10MF	20%	50V
C203	1-136-165-00	FILM	0.1MF	5%	50V
C204	1-136-173-00	FILM	0.47MF	5%	50V
C205	1-136-165-00	FILM	0.1MF	5%	50V
C206	1-107-608-11	CERAMIC	68pF	5%	500V
C207	1-102-965-00	CERAMIC	39pF	5%	50V
C208	1-136-165-00	FILM	0.1MF	5%	50V
C209	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C212	1-102-117-00	CERAMIC	820pF	10%	50V
C214	1-126-964-11	ELECT	10MF	20%	50V
C215	1-136-165-00	FILM	0.1MF	5%	50V
C216	1-136-165-00	FILM	0.1MF	5%	50V
C217	1-136-165-00	FILM	0.1MF	5%	50V
C250	1-124-903-11	ELECT	1MF	20%	50V
C301	1-126-964-11	ELECT	10MF	20%	50V
C303	1-136-165-00	FILM	0.1MF	5%	50V
C304	1-136-173-00	FILM	0.47MF	5%	50V
C305	1-136-165-00	FILM	0.1MF	5%	50V
C306	1-107-608-11	CERAMIC	68pF	5%	500V
C307	1-102-852-91	CERAMIC	47pF	5%	50V
C308	1-136-165-00	FILM	0.1MF	5%	50V
C309	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C312	1-102-117-00	CERAMIC	820pF	10%	50V
C314	1-126-964-11	ELECT	10MF	20%	50V
C315	1-136-165-00	FILM	0.1MF	5%	50V
C316	1-107-943-11	ELECT	10MF	20%	160V
C317	1-136-165-00	FILM	0.1MF	5%	50V
		<CONNECTOR>			
CN302	1-695-915-11	TAB (CONTACT)			
CN303	1-695-915-11	TAB (CONTACT)			
CN305*	1-564-514-11	PLUG, CONNECTOR			11P
CN306*	1-564-515-11	PLUG, CONNECTOR			12P
CN307*	1-564-512-11	PLUG, CONNECTOR			9P

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK
CN308*	1-564-507-11	PLUG, CONNECTOR 4P	
		<DIODE>	
D002	8-719-911-19	DIODE 1SS119-25	
D003	8-719-911-19	DIODE 1SS119-25	
D004	8-719-109-89	ZENER DIODE RD5.6ESB2	
D005	8-719-911-19	DIODE 1SS119-25	
D010	8-719-911-19	DIODE 1SS119-25	
D012	8-719-109-97	ZENER DIODE RD6.8ESB2	
D014	8-719-911-19	DIODE 1SS119-25	
D101	8-719-911-19	DIODE 1SS119-25	
D102	8-719-911-19	DIODE 1SS119-25	
D103	8-719-911-19	DIODE 1SS119-25	
D104	8-719-970-83	DIODE HSS82	
D105	8-719-970-83	DIODE HSS82	
D106	8-719-109-89	ZENER DIODE RD5.6ESB2	
D107	8-719-109-89	ZENER DIODE RD5.6ESB2	
D108	8-719-109-89	ZENER DIODE RD5.6ESB2	
D109	8-719-109-89	ZENER DIODE RD5.6ESB2	
D201	8-719-911-19	DIODE 1SS119-25	
D202	8-719-911-19	DIODE 1SS119-25	
D203	8-719-911-19	DIODE 1SS119-25	
D204	8-719-970-83	DIODE HSS82	
D205	8-719-970-83	DIODE HSS82	
D301	8-719-911-19	DIODE 1SS119-25	
D302	8-719-911-19	DIODE 1SS119-25	
D303	8-719-911-19	DIODE 1SS119-25	
D304	8-719-970-83	DIODE HSS82	
D305	8-719-970-83	DIODE HSS82	
		<FERRITE BEAD>	
FB001	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB002	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB003	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB004	1-412-537-31	INDUCTOR 100UH	
FB005	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB006	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB007	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB010	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB011	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB012	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB013	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB014	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
		<FILTER>	
FL002	1-249-413-11	CARBON 470 5%	1/4W
FL101	1-239-973-11	FILTER, EMI	
FL201	1-239-973-11	FILTER, EMI	
FL301	1-239-973-11	FILTER, EMI	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC001	8-759-335-25	IC LM1207N	
IC002	8-759-232-03	IC TC74HC02AP	
IC003	8-759-348-09	IC SNY422-SONY	
IC004	8-759-711-28	IC NJM2058D	
IC005	8-759-399-78	IC 24LC21/P	
		<JACK>	
J001	⚠ 1-251-335-11	SOCKET, CRT	
		<COIL>	
L102	1-414-142-11	INDUCTOR 1UH	
L202	1-414-142-11	INDUCTOR 1UH	
L302	1-414-142-11	INDUCTOR 1UH	
		<TRANSISTOR>	
Q001	8-729-032-61	TRANSISTOR 2SC5022-02	
Q002	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q004	8-729-326-11	TRANSISTOR 2SC2611	
Q005	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q006	8-719-911-19	DIODE 1SS119-25	
Q101	8-729-103-19	TRANSISTOR 2SA1206-K1	
Q102	8-729-019-70	TRANSISTOR 2SC3955-DE	
Q103	8-729-031-84	TRANSISTOR 2SC3652	
Q104	8-729-823-07	TRANSISTOR 2SA1540-DE	
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q201	8-729-103-19	TRANSISTOR 2SA1206-K1	
Q202	8-729-019-70	TRANSISTOR 2SC3955-DE	
Q203	8-729-031-84	TRANSISTOR 2SC3652	
Q204	8-729-823-07	TRANSISTOR 2SA1540-DE	
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q301	8-729-103-19	TRANSISTOR 2SA1206-K1	
Q302	8-729-019-70	TRANSISTOR 2SC3955-DE	
Q303	8-729-031-84	TRANSISTOR 2SC3652	
Q304	8-729-823-07	TRANSISTOR 2SA1540-DE	
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R001	1-249-417-11	CARBON 1K 5%	1/4W
R002	1-215-438-00	METAL 5.1K 1%	1/4W
R003	1-249-437-11	CARBON 47K 5%	1/4W
R004	1-249-435-11	CARBON 33K 5%	1/4W
R005	1-249-417-11	CARBON 1K 5%	1/4W
R006	1-249-429-11	CARBON 10K 5%	1/4W
R007	1-249-417-11	CARBON 1K 5%	1/4W
R008	1-249-421-11	CARBON 2.2K 5%	1/4W
R009	1-247-807-31	CARBON 100 5%	1/4W
R010	1-247-807-31	CARBON 100 5%	1/4W
R011	1-249-439-11	CARBON 68K 5%	1/4W
R012	1-247-807-31	CARBON 100 5%	1/4W
R013	1-247-807-31	CARBON 100 5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R014	1-247-807-31	CARBON	100	5%	1/4W	
R015	1-215-887-00	METAL OXIDE	150	5%	2W	F
R016	1-249-429-11	CARBON	10K	5%	1/4W	
R017	1-249-421-11	CARBON	2.2K	5%	1/4W	
R018	1-249-413-11	CARBON	470	5%	1/4W	
R019	1-247-815-91	CARBON	220	5%	1/4W	
R020	1-249-429-11	CARBON	10K	5%	1/4W	
R021	1-249-429-11	CARBON	10K	5%	1/4W	
R022	1-247-887-00	CARBON	220K	5%	1/4W	
R023	1-249-437-11	CARBON	47K	5%	1/4W	
R025	1-249-417-11	CARBON	1K	5%	1/4W	
R026	1-249-421-11	CARBON	2.2K	5%	1/4W	
R027	1-249-437-11	CARBON	47K	5%	1/4W	
R028	1-216-372-11	METAL OXIDE	1.8	5%	2W	F
R030	1-249-441-11	CARBON	100K	5%	1/4W	
R031	1-247-815-91	CARBON	220	5%	1/4W	
R032	1-247-807-31	CARBON	100	5%	1/4W	
R033	1-249-393-11	CARBON	10	5%	1/4W	
R039	1-249-417-11	CARBON	1K	5%	1/4W	
R044	1-249-435-11	CARBON	33K	5%	1/4W	
R045	1-249-421-11	CARBON	2.2K	5%	1/4W	
R046	1-219-621-91	METAL	22M	10%	1/4W	
R047	1-249-441-11	CARBON	100K	5%	1/4W	
R048	1-211-885-21	METAL	2.2M	5%	1W	
R049	1-249-435-11	CARBON	33K	5%	1/4W	
R050	1-249-401-11	CARBON	47	5%	1/4W	
R051	1-249-401-11	CARBON	47	5%	1/4W	
R052	1-249-401-11	CARBON	47	5%	1/4W	
R054	1-249-417-11	CARBON	1K	5%	1/4W	
R064	1-202-830-00	SOLID	10K	20%	1/2W	
R077	1-249-416-11	CARBON	820	5%	1/4W	
R089	1-249-398-11	CARBON	27	5%	1/4W	
R101	1-215-382-00	METAL	24	1%	1/4W	
R102	1-215-390-00	METAL	51	1%	1/4W	
R103	1-215-447-00	METAL	12K	1%	1/4W	
R104	1-247-807-31	CARBON	100	5%	1/4W	
R105	1-249-437-11	CARBON	47K	5%	1/4W	
R106	1-249-415-11	CARBON	680	5%	1/4W	
R107	1-249-406-11	CARBON	120	5%	1/4W	F
R111	1-215-425-00	METAL	1.5K	1%	1/4W	
R112	1-215-413-00	METAL	470	1%	1/4W	
R113	1-249-401-11	CARBON	47	5%	1/4W	F
R114	1-249-393-11	CARBON	10	5%	1/4W	
R115	1-249-412-11	CARBON	390	5%	1/4W	
R116	1-247-791-91	CARBON	22	5%	1/4W	
R118	1-249-401-11	CARBON	47	5%	1/4W	F
R119	1-249-414-11	CARBON	560	5%	1/4W	F
R120	1-219-795-11	METAL	33K	1%	1W	F
R121	1-216-443-11	METAL OXIDE	56K	5%	1W	F
R122	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R123	1-249-397-11	CARBON	22	5%	1/4W	F
R125	1-249-441-11	CARBON	100K	5%	1/4W	
R126	1-249-415-11	CARBON	680	5%	1/4W	
R130	1-215-469-00	METAL	100K	1%	1/4W	
R131	1-215-435-00	METAL	3.9K	1%	1/4W	
R132	1-215-429-00	METAL	2.2K	1%	1/4W	
R133	1-249-415-11	CARBON	680	5%	1/4W	
R134	1-215-477-00	METAL	220K	1%	1/4W	
R150	1-249-413-11	CARBON	470	5%	1/4W	
R151	1-202-549-00	SOLID	100	20%	1/2W	
R162	1-215-418-00	METAL	750	1%	1/4W	
R163	1-249-419-11	CARBON	1.5K	5%	1/4W	
R164	1-249-424-11	CARBON	3.9K	5%	1/4W	
R165	1-249-437-11	CARBON	47K	5%	1/4W	
R201	1-215-382-00	METAL	24	1%	1/4W	
R202	1-215-390-00	METAL	51	1%	1/4W	
R203	1-249-437-11	CARBON	47K	5%	1/4W	
R204	1-247-807-31	CARBON	100	5%	1/4W	
R205	1-249-437-11	CARBON	47K	5%	1/4W	
R206	1-249-415-11	CARBON	680	5%	1/4W	
R207	1-249-406-11	CARBON	120	5%	1/4W	F
R208	1-249-437-11	CARBON	47K	5%	1/4W	
R211	1-215-425-00	METAL	1.5K	1%	1/4W	
R212	1-215-413-00	METAL	470	1%	1/4W	
R213	1-249-401-11	CARBON	47	5%	1/4W	F
R214	1-249-393-11	CARBON	10	5%	1/4W	
R215	1-249-412-11	CARBON	390	5%	1/4W	
R216	1-247-791-91	CARBON	22	5%	1/4W	
R218	1-249-401-11	CARBON	47	5%	1/4W	F
R219	1-249-414-11	CARBON	560	5%	1/4W	F
R220	1-219-795-11	METAL	33K	1%	1W	F
R221	1-216-443-11	METAL OXIDE	56K	5%	1W	F
R222	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R223	1-249-397-11	CARBON	22	5%	1/4W	F
R225	1-249-441-11	CARBON	100K	5%	1/4W	
R226	1-249-415-11	CARBON	680	5%	1/4W	
R230	1-215-469-00	METAL	100K	1%	1/4W	
R231	1-215-435-00	METAL	3.9K	1%	1/4W	
R232	1-215-429-00	METAL	2.2K	1%	1/4W	
R233	1-249-415-11	CARBON	680	5%	1/4W	
R234	1-215-477-00	METAL	220K	1%	1/4W	
R250	1-249-413-11	CARBON	470	5%	1/4W	
R251	1-202-549-00	SOLID	100	20%	1/2W	
R262	1-215-418-00	METAL	750	1%	1/4W	
R263	1-249-419-11	CARBON	1.5K	5%	1/4W	
R264	1-249-424-11	CARBON	3.9K	5%	1/4W	
R265	1-249-437-11	CARBON	47K	5%	1/4W	
R301	1-215-382-00	METAL	24	1%	1/4W	
R302	1-215-390-00	METAL	51	1%	1/4W	
R303	1-249-437-11	CARBON	47K	5%	1/4W	
R304	1-247-807-31	CARBON	100	5%	1/4W	
R305	1-249-437-11	CARBON	47K	5%	1/4W	
R306	1-249-415-11	CARBON	680	5%	1/4W	
R307	1-249-405-11	CARBON	100	5%	1/4W	F
R308	1-249-437-11	CARBON	47K	5%	1/4W	
R309	1-215-437-00	METAL	4.7K	1%	1/4W	
R310	1-215-437-00	METAL	4.7K	1%	1/4W	
R311	1-215-425-00	METAL	1.5K	1%	1/4W	
R312	1-215-405-00	METAL	220	1%	1/4W	
R313	1-249-401-11	CARBON	47	5%	1/4W	F
R314	1-249-392-11	CARBON	8.2	5%	1/4W	
R315	1-249-412-11	CARBON	390	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R316	1-247-791-91	CARBON	22	5%	1/4W	
R318	1-249-401-11	CARBON	47	5%	1/4W	F
R319	1-249-414-11	CARBON	560	5%	1/4W	F
R320	1-219-795-11	METAL	33K	1%	1W	F
R321	1-216-443-11	METAL OXIDE	56K	5%	1W	F
R322	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R323	1-249-397-11	CARBON	22	5%	1/4W	F
R325	1-249-441-11	CARBON	100K	5%	1/4W	
R326	1-249-415-11	CARBON	680	5%	1/4W	
R330	1-215-469-00	METAL	100K	1%	1/4W	
R331	1-215-435-00	METAL	3.9K	1%	1/4W	
R332	1-215-429-00	METAL	2.2K	1%	1/4W	
R333	1-249-415-11	CARBON	680	5%	1/4W	
R334	1-215-477-00	METAL	220K	1%	1/4W	
R350	1-249-413-11	CARBON	470	5%	1/4W	
R351	1-202-549-00	SOLID	100	20%	1/2W	
R362	1-215-418-00	METAL	750	1%	1/4W	
R363	1-249-419-11	CARBON	1.5K	5%	1/4W	
R364	1-249-424-11	CARBON	3.9K	5%	1/4W	
R365	1-249-437-11	CARBON	47K	5%	1/4W	

<VARIABLE RESISTOR>

RV001	1-241-787-11	RES, ADJ, CARBON	47K (G2)

<SPARK GAP>

SG001	1-519-422-11	GAP, SPARK
SG101	1-519-504-11	GAP, DISCHARGE
SG201	1-519-504-11	GAP, DISCHARGE
SG301	1-519-504-11	GAP, DISCHARGE

<CRYSTAL>

X1	1-567-890-11	VIBRATOR, CRYSTAL

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*	8-933-205-00	D BOARD, COMPLETE
		**********
	4-045-133-01	HOLDER (B), LED (D1801)
*	4-049-002-01	HOLDER, LED (D1808)
	4-051-627-01	SHEET, INSULATING (Q510)
	4-382-854-01	SCREW (M3X8), P, SW (+) (IC504, IC602, Q503, Q507, Q510, Q602, D501)
	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)
	4-389-026-11	SHEET, BN (Q602)

<CAPACITOR>

C077	1-162-318-11	CERAMIC	0.001MF	10%	500V
C079	1-109-878-11	CERAMIC	15pF	5%	2KV
C401	1-137-399-11	FILM	0.1MF	5%	50V
C402	1-137-370-11	FILM	0.01MF	5%	50V
C403	1-126-965-11	ELECT	22MF	20%	50V
C404	1-136-203-11	FILM	0.01MF	5%	630V
C405	1-136-173-00	FILM	0.47MF	5%	50V
C406	1-137-375-11	FILM	0.068MF	5%	50V
C407	1-126-964-11	ELECT	10MF	20%	50V
C408	1-126-964-11	ELECT	10MF	20%	50V
C409	1-124-903-11	ELECT	1MF	20%	50V
C410	1-126-964-11	ELECT	10MF	20%	50V
C411	1-102-112-00	CERAMIC	330pF	10%	50V
C412	1-101-810-00	CERAMIC	100pF	5%	500V
C413	1-126-964-11	ELECT	10MF	20%	50V
C414	1-137-370-11	FILM	0.01MF	5%	50V
C415	1-107-714-11	ELECT	10MF	20%	16V
C501	1-104-664-11	ELECT	47MF	20%	25V
C503	1-107-667-11	ELECT	2.2MF	20%	160V
C504	1-104-664-11	ELECT	47MF	20%	25V
C505	1-107-974-11	CERAMIC	47pF	5%	2KV
C506	1-136-105-00	FILM	0.33MF	5%	200V
C507	1-126-964-11	ELECT	10MF	20%	50V
C509	1-137-378-11	FILM	0.22MF	5%	50V
C510	1-128-526-11	ELECT	100MF	20%	25V
C511	1-137-370-11	FILM	0.01MF	5%	50V
C512	1-137-370-11	FILM	0.01MF	5%	50V
C513	1-106-391-12	MYLAR	0.1MF	10%	200V
C514	1-101-006-00	CERAMIC	0.047MF		50V
C515	1-106-228-00	MYLAR	0.22MF	10%	100V
C516	1-137-399-11	FILM	0.1MF	5%	50V
C517	1-107-894-11	ELECT	220MF	20%	35V
C518	1-102-002-00	CERAMIC	680pF	10%	500V
C519	1-137-370-11	FILM	0.01MF	5%	50V
C520	1-126-942-61	ELECT	1000MF	20%	25V
C521	1-128-528-11	ELECT	470MF	20%	25V
C522	1-137-374-11	FILM	0.047MF	5%	50V
C523	1-137-399-11	FILM	0.1MF	5%	50V
C524	1-124-903-11	ELECT	1MF	20%	50V
C525	1-126-964-11	ELECT	10MF	20%	50V
C526	1-136-169-00	FILM	0.22MF	5%	50V
C527	1-106-343-00	MYLAR	0.001MF	10%	100V
C528	1-126-965-11	ELECT	22MF	20%	50V
C532	1-106-367-00	MYLAR	0.01MF	10%	200V
C533	1-101-821-00	CERAMIC	0.0022MF		500V
C534	1-115-349-51	CERAMIC	0.01MF		2KV
C535	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C536	1-115-349-51	CERAMIC	0.01MF		2KV
C540	1-136-539-11	FILM	0.0022MF	3%	2KV
C541	1-109-997-11	FILM	0.0043MF	3%	2.5KV
C542	1-137-368-11	FILM	0.0047MF	5%	50V
C543	1-102-973-00	CERAMIC	100pF	5%	50V
C544	1-137-364-11	FILM	0.001MF	5%	50V
C547	1-126-941-11	ELECT	470MF	20%	25V
C548	1-137-425-11	FILM	0.33MF	10%	100V
C549	1-137-399-11	FILM	0.1MF	5%	50V
C550	1-109-960-11	FILM	0.43MF	5%	400V
C551	1-102-106-00	CERAMIC	100pF	10%	50V
C562	1-136-946-11	FILM	0.12MF	5%	200V
C563	1-102-110-00	CERAMIC	220pF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C565	1-136-244-11	FILM	0.1MF	5%	50V
C567	1-136-121-00	FILM	0.27MF	5%	200V
C569	1-137-370-11	FILM	0.01MF	5%	50V
C570	1-136-853-11	FILM	0.56MF	5%	200V
C571	1-124-903-11	ELECT	1MF	20%	50V
C573	1-137-364-11	FILM	0.001MF	5%	50V
C577	1-102-106-00	CERAMIC	100pF	10%	50V
C578	1-126-952-11	ELECT	1000MF	20%	16V
C580	1-137-367-11	FILM	0.0033MF	5%	50V
C581	1-137-399-11	FILM	0.1MF	5%	50V
C582	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C583	1-106-375-12	MYLAR	0.022MF	10%	100V
C584	1-101-361-00	CERAMIC	150pF	5%	50V
C585	1-102-002-00	CERAMIC	680pF	10%	500V
C587	1-137-399-11	FILM	0.1MF	5%	50V
C590	1-126-965-11	ELECT	22MF	20%	50V
C591	1-102-106-00	CERAMIC	100pF	10%	50V
C593	1-136-105-00	FILM	0.33MF	5%	200V
C594	1-137-365-11	FILM	0.0015MF	5%	50V
C595	1-137-370-11	FILM	0.01MF	5%	50V
C596	1-102-114-00	CERAMIC	470pF	10%	50V
C599	1-128-526-11	ELECT	100MF	20%	25V
C601 ⚠	1-107-533-51	FILM	1MF	20%	250V
C602 ⚠	1-104-708-51	FILM	0.47MF	20%	250V
C603 ⚠	1-113-912-51	CERAMIC	0.0047MF	20%	250V
C604 ⚠	1-113-912-51	CERAMIC	0.0047MF	20%	250V
C605 ⚠	1-113-894-51	CERAMIC	100pF	10%	250V
C606 ⚠	1-113-894-51	CERAMIC	100pF	10%	250V
C607	1-113-912-51	CERAMIC	0.0047MF	20%	250V
C608	1-101-810-00	CERAMIC	100pF	5%	500V
C609	1-109-984-11	ELECT	390MF	20%	400V
C610	1-162-115-00	CERAMIC	330pF	10%	2KV
C611	1-125-700-11	ELECT	220MF	20%	200V
C612	1-162-318-11	CERAMIC	0.001MF	10%	500V
C613	1-107-947-11	ELECT	220MF	20%	160V
C615	1-107-891-11	ELECT	3300MF	20%	25V
C616	1-107-896-11	ELECT	470MF	20%	35V
C617	1-126-105-11	ELECT	1000MF	20%	25V
C618	1-126-105-11	ELECT	1000MF	20%	25V
C619	1-102-116-00	CERAMIC	680pF	10%	50V
C620	1-136-203-11	FILM	0.01MF	5%	630V
C621	1-128-564-11	ELECT	220MF	20%	100V
C622	1-136-169-00	FILM	0.22MF	5%	50V
C624	1-124-925-11	ELECT	2.2MF	20%	50V
C625	1-102-114-00	CERAMIC	470pF	10%	50V
C626	1-137-364-11	FILM	0.001MF	5%	50V
C627	1-102-114-00	CERAMIC	470pF	10%	50V
C628	1-126-963-11	ELECT	4.7MF	20%	50V
C630	1-126-964-11	ELECT	10MF	20%	50V
C632	1-102-110-00	CERAMIC	220pF	10%	50V
C633	1-102-074-00	CERAMIC	0.001MF	10%	50V
C634	1-128-526-11	ELECT	100MF	20%	25V
C635	1-128-528-11	ELECT	470MF	20%	16V
C639	1-137-399-11	FILM	0.1MF	5%	50V
C640	1-126-964-11	ELECT	10MF	20%	50V
C641	1-137-364-11	FILM	0.001MF	5%	50V
C650	1-126-933-11	ELECT	100MF	20%	16V
C651	1-137-364-11	FILM	0.001MF	5%	50V
C652	1-137-364-11	FILM	0.001MF	5%	50V
C653	1-137-364-11	FILM	0.001MF	5%	50V
C654	1-137-364-11	FILM	0.001MF	5%	50V
C655	1-137-364-11	FILM	0.001MF	5%	50V
C901	1-137-399-11	FILM	0.1MF	5%	50V
C902	1-137-366-11	FILM	0.0022MF	5%	50V
C903	1-102-951-00	CERAMIC	15pF	5%	50V
C904	1-137-399-11	FILM	0.1MF	5%	50V
C905	1-137-399-11	FILM	0.1MF	5%	50V
C906	1-137-399-11	FILM	0.1MF	5%	50V
C907	1-126-963-11	ELECT	4.7MF	20%	50V
C908	1-102-951-00	CERAMIC	15pF	5%	50V
C909	1-102-106-00	CERAMIC	100pF	10%	50V
C911	1-126-768-11	ELECT	2200MF	20%	16V
C912	1-136-165-00	FILM	0.1MF	5%	50V
C916	1-124-925-11	ELECT	2.2MF	20%	50V
C917	1-124-925-11	ELECT	2.2MF	20%	50V
C918	1-124-925-11	ELECT	2.2MF	20%	50V
C919	1-124-925-11	ELECT	2.2MF	20%	50V
C920	1-124-925-11	ELECT	2.2MF	20%	50V
C921	1-124-925-11	ELECT	2.2MF	20%	50V
C922	1-137-399-11	FILM	0.1MF	5%	50V
C923	1-137-370-11	FILM	0.01MF	5%	50V
C924	1-137-399-11	FILM	0.1MF	5%	50V
C925	1-126-934-11	ELECT	220MF	20%	16V
C926	1-137-364-11	FILM	0.001MF	5%	50V
C928	1-137-370-11	FILM	0.01MF	5%	50V
C929	1-137-399-11	FILM	0.1MF	5%	50V
C930	1-124-768-11	ELECT	4.7MF	20%	35V
C931	1-136-169-00	FILM	0.22MF	5%	50V
C932	1-137-399-11	FILM	0.1MF	5%	50V
C933	1-126-934-11	ELECT	220MF	20%	16V
C934	1-124-925-11	ELECT	2.2MF	20%	50V
C935	1-136-169-00	FILM	0.22MF	5%	50V
C936	1-137-399-11	FILM	0.1MF	5%	50V
C937	1-126-935-11	ELECT	470MF	20%	16V
C938	1-126-963-11	ELECT	4.7MF	20%	50V
C939	1-137-399-11	FILM	0.1MF	5%	50V
C940	1-126-934-11	ELECT	220MF	20%	16V
C941	1-126-934-11	ELECT	220MF	20%	16V
C942	1-137-370-11	FILM	0.01MF	5%	50V
C943	1-137-370-11	FILM	0.01MF	5%	50V
C944	1-104-665-11	ELECT	100MF	20%	25V
C945	1-137-370-11	FILM	0.01MF	5%	50V
C946	1-102-106-00	CERAMIC	100pF	10%	50V
C947	1-102-115-00	CERAMIC	560pF	10%	50V
C948	1-137-399-11	FILM	0.1MF	5%	50V
C949	1-137-399-11	FILM	0.1MF	5%	50V
C951	1-136-173-00	FILM	0.47MF	5%	50V
C952	1-137-372-11	FILM	0.022MF	5%	50V
C953	1-137-372-11	FILM	0.022MF	5%	50V
C954	1-137-399-11	FILM	0.1MF	5%	50V
C960	1-137-374-11	FILM	0.047MF	5%	50V
C961	1-102-110-00	CERAMIC	220pF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C962	1-124-925-11	ELECT	2.2MF	20%	50V
C964	1-137-364-11	FILM	0.001MF	5%	50V
C965	1-136-165-00	FILM	0.1MF	5%	50V
C967	1-102-114-00	CERAMIC	470pF	10%	50V
C1801	1-102-112-00	CERAMIC	330pF	10%	50V
C1802	1-102-112-00	CERAMIC	330pF	10%	50V
		<CONNECTOR>			
CN501*	1-580-798-11	CONNECTOR PIN (DY)	6P		
CN504*	1-564-507-11	PLUG, CONNECTOR	4P		
CN505*	1-564-514-11	PLUG, CONNECTOR	11P		
CN508*	1-564-515-11	PLUG, CONNECTOR	12P		
CN509*	1-508-879-11	BASE POST			
CN510	1-695-915-11	TAB (CONTACT)			
CN600⚠	1-251-227-11	INLET, AC			
CN601	1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P		
CN602	1-695-915-11	TAB (CONTACT)			
CN603*⚠	1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P		
CN604*	1-691-134-11	PIN, CONNECTOR (PC BOARD)	2P		
CN605*	1-506-371-00	PIN, CONNECTOR	2P		
CN606	1-695-915-11	TAB (CONTACT)			
CN607	1-695-915-11	TAB (CONTACT)			
CN1801 *	1-564-508-11	PLUG, CONNECTOR	5P		
		<DIODE>			
D401	8-719-110-41	ZENER DIODE RD15ESB2			
D402	8-719-979-58	DIODE EGP10D			
D403	8-719-908-03	DIODE GP08D			
D404	8-719-908-03	DIODE GP08D			
D405	8-719-908-03	DIODE GP08D			
D407	8-719-110-67	ZENER DIODE RD27ES-T1B2			
D501	8-719-049-12	DIODE 5TUZ52			
D502	8-719-979-58	DIODE EGP10D			
D504	8-719-051-97	DIODE 3DL41A(LC6-15)			
D505	8-719-110-17	ZENER DIODE RD10ESB2			
D508	8-719-975-77	DIODE SB340			
D513	8-719-970-83	DIODE HSS82			
D514	8-719-970-83	DIODE HSS82			
D515	8-719-979-58	DIODE EGP10GPKG23			
D517	8-719-109-97	ZENER DIODE RD6.8ESB2			
D522	8-719-911-19	DIODE 1SS119-25			
D523	8-719-911-19	DIODE 1SS119-25			
D525	8-719-110-31	ZENER DIODE RD12ESB2			
D526	8-719-018-82	DIODE RGP02-20EL-6394			
D527	8-719-911-55	DIODE U05G			
D528	8-719-979-58	DIODE EGP10D			
D529	8-719-911-19	DIODE 1SS119-25			
D530	8-719-901-83	DIODE 1SS83			
D543	8-719-911-19	DIODE 1SS119-25			
D544	8-719-911-19	DIODE 1SS119-25			
D557	8-719-109-81	ZENER DIODE RD4.7ESB2			
D596	8-719-911-19	DIODE 1SS119-25TD			
D597	8-719-911-19	DIODE 1SS119-25TD			
D598	8-719-110-41	ZENER DIODE RD15ESB2			
D599	8-719-911-19	DIODE 1SS119-25			

REF.NO.	PART NO.	DESCRIPTION	REMARK
D601 ⚠	8-719-025-88	DIODE GBU4JL-6088	
D602	8-719-908-03	DIODE GP08D	
D604	8-719-908-03	DIODE GP08D	
D605	8-719-048-62	DIODE UF3ML-6505	
D607	8-719-054-51	DIODE D8LC20U-4012	
D608	8-719-979-50	DIODE EGP30D	
D609	8-719-051-97	DIODE 3DL41A(LC6-15)	
D610	8-719-053-19	DIODE UF4007G23	
D611	8-719-300-76	DIODE RH-1A	
D613	8-719-110-49	ZENER DIODE RD18ESB2	
D614	8-719-911-19	DIODE 1SS119-25	
D617	8-719-109-60	ZENER DIODE RD2.7ESB2	
D618	8-719-911-19	DIODE 1SS119-25	
D620	8-719-911-19	DIODE 1SS119-25	
D621	8-719-911-19	DIODE 1SS119-25	
D651	8-719-911-19	DIODE 1SS119-25	
D901	8-719-911-19	DIODE 1SS119-25	
D902	8-719-911-19	DIODE 1SS119-25	
D904	8-719-109-89	ZENER DIODE RD5.6ESB2	
D907	8-719-109-88	ZENER DIODE RD5.6ESB1	
D909	8-719-911-19	DIODE 1SS119-25	
D910	8-719-911-19	DIODE 1SS119-25	
D911	8-719-911-19	DIODE 1SS119-25	
D912	8-719-911-19	DIODE 1SS119-25	
D913	8-719-911-19	DIODE 1SS119-25	
D914	8-719-911-19	DIODE 1SS119-25	
D915	8-719-911-19	DIODE 1SS119-25	
D916	8-719-911-19	DIODE 1SS119-25	
D917	8-719-911-19	DIODE 1SS119-25	
D918	8-719-911-19	DIODE 1SS119-25	
D1801	8-719-311-90	DIODE SEL1922D-C	
D1802	8-719-109-93	ZENER DIODE RD6.2ESB2	
D1808	8-719-045-19	DIODE SPB-26MVWF	
		<FUSE>	
F601 ⚠	1-576-231-11	FUSE (H.B.C.) 4A/250V	
	1-533-223-11	HOLDER, FUSE ; F601	
		<FERRITE BEAD>	
FB501	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB502	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB601	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB602	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB603	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB604	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB605	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB901	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB902	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
		<TERMINAL>	
GT002*	1-537-738-21	TERMINAL, EARTH	

D

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC400	8-759-803-42	IC LA6500-FA	
IC500	8-759-729-03	IC NJM2903D	
IC501	⚠8-759-342-07	IC UPC5023CS-095	
IC502	8-759-054-26	IC HD74HC123AP	
IC504	8-759-980-58	IC TDA8172	
IC600	8-759-045-84	IC MC14584BCP	
IC601	8-759-335-24	IC TEA2262	
IC602	8-759-335-23	IC TDA8138	
IC901	8-759-348-61	IC ST7271N5B1/CBO	
IC902	8-759-921-08	IC SN74HC02AN	
IC903	8-759-165-81	IC PST600D-T	
IC904	8-759-336-24	IC TDA9103	
IC905	8-759-000-49	IC MC14066BCP	
IC908	8-759-503-91	IC TL082ACP	
		<COIL>	
L501	1-412-550-11	INDUCTOR 1.2mH	
L502	1-412-537-31	INDUCTOR 100UH	
L504	1-459-104-00	COIL, WITH CORE	
L505	1-412-531-31	INDUCTOR 33UH	
L506	1-459-104-00	COIL, WITH CORE	
L507	1-412-531-31	INDUCTOR 33UH	
L513	1-409-896-11	COIL, HORIZONTAL LINEARITY	
L601	1-412-537-31	INDUCTOR 100UH	
L606	1-412-537-31	INDUCTOR 100UH	
L608	1-406-665-11	COIL, CHOKE 100UH	
L900	1-412-537-31	INDUCTOR 100UH	
L901	1-412-537-31	INDUCTOR 100UH	
L902	1-412-537-31	INDUCTOR 100UH	
L903	1-412-537-31	INDUCTOR 100UH	
		<IC LINK>	
PS401	⚠1-532-838-41	LINK, IC 800mA/90V	
		<TRANSISTOR>	
Q401	8-729-031-89	TRANSISTOR 2SC3941A-Q(TA)	
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-035-87	TRANSISTOR 2SK1737-TP	
Q503	8-729-027-97	TRANSISTOR IRFI9630G-LF	
Q507	8-729-030-67	TRANSISTOR 2SC5129(LBSONY1)	
Q510	8-729-027-82	TRANSISTOR IRFPE40LF20	
Q512	8-729-027-96	TRANSISTOR IRLI530G	
Q513	8-729-027-96	TRANSISTOR IRLI530G	
Q514	8-729-027-96	TRANSISTOR IRLI530G	
Q517	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q520	8-729-029-86	TRANSISTOR DTC124ESA	
Q522	8-729-143-79	TRANSISTOR 2SK738	
Q524	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q525	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q526	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q601	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q602	8-729-926-52	TRANSISTOR IRFPC40	
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q605	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q650	8-729-029-86	TRANSISTOR DTC124ESA	
Q651	8-729-029-86	TRANSISTOR DTC124ESA	
Q900	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q901	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q903	8-729-029-86	TRANSISTOR DTC124ESA	
Q904	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1801	8-729-029-40	TRANSISTOR DTA124ESA	
Q1802	8-729-029-40	TRANSISTOR DTA124ESA	
		<RESISTOR>	
R002	1-247-807-31	CARBON 100 5% 1/4W	
R003	1-247-807-31	CARBON 100 5% 1/4W	
R004	1-249-417-11	CARBON 1K 5% 1/4W	
R005	1-249-417-11	CARBON 1K 5% 1/4W	
R006	1-249-421-11	CARBON 2.2K 5% 1/4W	
R007	1-249-417-11	CARBON 1K 5% 1/4W	
R008	1-249-417-11	CARBON 1K 5% 1/4W	
R072	1-215-445-00	METAL 10K 1% 1/4W	
R401	1-215-443-00	METAL 8.2K 1% 1/4W	
R402	1-249-429-11	CARBON 10K 5% 1/4W	
R403	1-249-439-11	CARBON 68K 5% 1/4W	
R404	1-215-485-00	METAL 470K 1% 1/4W	
R405	1-249-401-11	CARBON 47 5% 1/4W	
R406	1-215-447-00	METAL 12K 1% 1/4W	
R407	1-215-449-00	METAL 15K 1% 1/4W	
R408	1-249-383-11	CARBON 1.5 5% 1/4W	F
R409	1-215-429-00	METAL 2.2K 1% 1/4W	
R410	1-215-883-11	METAL OXIDE 33 5% 2W	F
R411	1-215-460-00	METAL 43K 1% 1/4W	
R412	1-215-439-00	METAL 5.6K 1% 1/4W	
R415	1-249-419-11	CARBON 1.5K 5% 1/4W	
R416	1-249-441-11	CARBON 100K 5% 1/4W	
R417	1-215-427-00	METAL 1.8K 1% 1/4W	
R418	1-216-391-11	METAL OXIDE 1.5 5% 3W	F
R419	1-247-887-00	CARBON 220K 5% 1/4W	
R420	1-247-889-00	CARBON 270K 5% 1/4W	
R421	1-202-963-11	METAL 1 1% 1W	
R422	1-215-866-11	METAL OXIDE 330 5% 1W	F
R423	1-215-439-00	METAL 5.6K 1% 1/4W	
R424	1-215-447-00	METAL 12K 1% 1/4W	
R425	1-215-439-00	METAL 5.6K 1% 1/4W	
R426	1-249-383-11	CARBON 1.5 5% 1/4W	F
R427	1-215-447-00	METAL 12K 1% 1/4W	
R428	1-249-421-11	CARBON 2.2K 5% 1/4W	
R429	1-249-417-11	CARBON 1K 5% 1/4W	
R436	1-216-392-11	METAL OXIDE 1.8 5% 3W	F
R440	1-249-428-11	CARBON 8.2K 5% 1/4W	

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D

REF.NO.	PART NO.	DESCRIPTION				REMARK
R441	1-249-405-11	CARBON	100	5%	1/4W	F
R444	1-247-863-91	CARBON	22K	5%	1/4W	
R445	1-215-888-00	METAL OXIDE	220	5%	2W	F
R450	1-215-463-00	METAL	56K	1%	1/4W	
R451	1-216-474-11	METAL OXIDE	82	5%	3W	F
R452	1-249-428-11	CARBON	8.2K	5%	1/4W	
R453	1-216-474-11	METAL OXIDE	82	5%	3W	F
R454	1-219-683-11	METAL	220K	5%	1/2W	
R455	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R457 ⚠	1-215-476-91	METAL	200K	1%	1/4W	
R458	1-249-397-11	CARBON	22	5%	1/4W	F
R459	1-215-429-00	METAL	2.2K	1%	1/4W	
R460	1-215-429-00	METAL	2.2K	1%	1/4W	
R472	1-249-389-11	CARBON	4.7	5%	1/4W	F
R473	1-215-469-00	METAL	100K	1%	1/4W	
R474	1-215-493-00	METAL	1M	1%	1/4W	
R475	1-215-421-00	METAL	1K	1%	1/4W	
R480	1-249-397-11	CARBON	22	5%	1/4W	F
R481	1-249-419-11	CARBON	1.5K	5%	1/4W	
R484	1-249-435-11	CARBON	33K	5%	1/4W	
R485	1-249-421-11	CARBON	2.2K	5%	1/4W	
R487	1-249-429-11	CARBON	10K	5%	1/4W	
R490	1-249-417-11	CARBON	1K	5%	1/4W	F
R492	1-215-472-00	METAL	130K	1%	1/4W	
R493	1-216-477-11	METAL OXIDE	270	5%	3W	F
R494	1-215-489-00	METAL	680K	1%	1/4W	
R496	1-215-467-00	METAL	82K	1%	1/4W	
R497	1-249-417-11	CARBON	1K	5%	1/4W	F
R498	1-215-461-00	METAL	47K	1%	1/4W	
R499	1-249-377-11	CARBON	0.47	5%	1/4W	F
R502	1-249-417-11	CARBON	1K	5%	1/4W	F
R503	1-249-437-11	CARBON	47K	5%	1/4W	
R504	1-249-437-11	CARBON	47K	5%	1/4W	
R505	1-215-427-00	METAL	1.8K	1%	1/4W	
R506	1-247-883-00	CARBON	150K	5%	1/4W	
R507	1-249-437-11	CARBON	47K	5%	1/4W	
R508	1-215-469-00	METAL	100K	1%	1/4W	
R509	1-215-477-00	METAL	220K	1%	1/4W	
R511	1-247-887-00	CARBON	220K	5%	1/4W	
R512	1-249-438-11	CARBON	56K	5%	1/4W	
R516	1-215-447-00	METAL	12K	1%	1/4W	
R517	1-215-489-00	METAL	680K	1%	1/4W	
R518	1-215-475-00	METAL	180K	1%	1/4W	
R519	1-249-437-11	CARBON	47K	5%	1/4W	
R520	1-215-443-00	METAL	8.2K	1%	1/4W	
R521	1-215-867-00	METAL OXIDE	470	5%	1W	F
R524	1-216-447-00	METAL OXIDE	27	5%	2W	F
R525	1-215-461-00	METAL	47K	1%	1/4W	
R526	1-215-465-00	METAL	68K	1%	1/4W	
R527	1-215-459-00	METAL	39K	1%	1/4W	
R528	1-215-445-00	METAL	10K	1%	1/4W	
R529	1-249-415-11	CARBON	680	5%	1/4W	
R530	1-249-931-11	CARBON	2.2K	5%	1/4W	F
R531	1-249-432-11	CARBON	18K	5%	1/4W	
R532	1-249-429-11	CARBON	10K	5%	1/4W	
R535	1-249-429-11	CARBON	10K	5%	1/4W	
R563	1-249-441-11	CARBON	100K	5%	1/4W	
R564	1-249-421-11	CARBON	2.2K	5%	1/4W	
R565	1-215-443-00	METAL	8.2K	1%	1/4W	
R566	1-215-912-11	METAL OXIDE	150	5%	3W	F
R567	1-215-907-11	METAL OXIDE	22	5%	3W	F
R568	1-215-859-00	METAL OXIDE	22	5%	1W	F
R569	1-216-427-00	METAL OXIDE	120	5%	1W	F
R570	1-215-441-00	METAL	6.8K	1%	1/4W	
R571	1-249-377-11	CARBON	0.47	5%	1/4W	F
R572	1-249-426-11	CARBON	5.6K	5%	1/4W	
R573	1-249-429-11	CARBON	10K	5%	1/4W	
R574	1-249-429-11	CARBON	10K	5%	1/4W	
R575	1-249-426-11	CARBON	5.6K	5%	1/4W	
R576	1-249-425-11	CARBON	4.7K	5%	1/4W	
R577	1-249-437-11	CARBON	47K	5%	1/4W	
R582	1-249-426-11	CARBON	5.6K	5%	1/4W	
R583	1-249-426-11	CARBON	5.6K	5%	1/4W	
R589	1-215-449-00	METAL	15K	1%	1/4W	
R601 ⚠	1-202-882-91	SOLID	560K	20%	1/2W	
R602	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R603	1-215-469-00	METAL	100K	1%	1/4W	
R604	1-211-874-11	FUSIBLE	0.12	10%	1/2W	
R605	1-219-154-11	FUSIBLE	0.12	10%	1/4W	
R606	1-211-874-11	FUSIBLE	0.12	10%	1/2W	
R607	1-216-345-11	METAL OXIDE	0.47	5%	1W	F
R608	1-249-417-11	CARBON	1K	5%	1/4W	
R609	1-249-417-11	CARBON	1K	5%	1/4W	
R610	1-249-437-11	CARBON	47K	5%	1/4W	
R611	1-249-408-11	CARBON	180	5%	1/4W	
R617	1-219-154-11	FUSIBLE	0.12	10%	1/4W	
R620	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R621 ⚠	1-215-900-71	METAL OXIDE	22K	5%	2W	F
R623	1-249-436-11	CARBON	39K	5%	1/4W	
R624	1-249-394-11	CARBON	12	5%	1/4W	F
R625	1-249-393-11	CARBON	10	5%	1/4W	
R626	1-249-429-11	CARBON	10K	5%	1/4W	
R628	1-215-463-00	METAL	56K	1%	1/4W	
R629	1-215-421-00	METAL	1K	1%	1/4W	
R630	1-207-983-00	WIREWOUND	0.18	10%	3W	F
R631	1-249-441-11	CARBON	100K	5%	1/4W	
R632	1-247-863-91	CARBON	22K	5%	1/4W	
R633	1-249-429-11	CARBON	10K	5%	1/4W	
R634	1-215-433-00	METAL	3.3K	1%	1/4W	
R635	1-215-419-00	METAL	820	1%	1/4W	
R636	1-247-791-91	CARBON	22	5%	1/4W	
R637	1-249-417-11	CARBON	1K	5%	1/4W	
R638	1-215-421-00	METAL	1K	1%	1/4W	
R639	1-215-397-00	METAL	100	1%	1/4W	
R640	1-215-397-00	METAL	100	1%	1/4W	
R641	1-249-415-11	CARBON	680	5%	1/4W	
R645	1-249-427-11	CARBON	6.8K	5%	1/4W	
R646	1-215-463-00	METAL	56K	1%	1/4W	
R647	1-215-435-00	METAL	3.9K	1%	1/4W	
R648	1-249-393-11	CARBON	10	5%	1/4W	F
R649	1-247-891-00	CARBON	330K	5%	1/4W	
R650	1-215-445-00	METAL	10K	1%	1/4W	

D

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R651	1-215-449-00	METAL	15K	1%	1/4W
R652	1-249-429-11	CARBON	10K	5%	1/4W
R656	1-249-403-11	CARBON	68	5%	1/4W
R657	1-249-417-11	CARBON	1K	5%	1/4W
R658	1-249-417-11	CARBON	1K	5%	1/4W
R661 ⚠	1-205-985-21	WIREWOUND	1.5	5%	20W
R670	1-249-393-11	CARBON	10	5%	1/4W F
R671	1-247-863-91	CARBON	22K	5%	1/4W
R672	1-249-418-11	CARBON	1.2K	5%	1/4W
R673	1-249-418-11	CARBON	1.2K	5%	1/4W
R674	1-247-863-91	CARBON	22K	5%	1/4W
R675	1-249-418-11	CARBON	1.2K	5%	1/4W
R676	1-249-418-11	CARBON	1.2K	5%	1/4W
R677	1-247-807-31	CARBON	100	5%	1/4W
R678	1-247-863-91	CARBON	22K	5%	1/4W
R679	1-211-874-11	FUSIBLE	0.12	10%	1/2W
R900	1-249-417-11	CARBON	1K	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-425-11	CARBON	4.7K	5%	1/4W
R905	1-215-471-00	METAL	120K	1%	1/4W
R907	1-249-417-11	CARBON	1K	5%	1/4W
R908	1-247-863-91	CARBON	22K	5%	1/4W
R910	1-249-437-11	CARBON	47K	5%	1/4W
R912	1-215-477-00	METAL	220K	1%	1/4W
R913	1-247-863-91	CARBON	22K	5%	1/4W
R914	1-247-863-91	CARBON	22K	5%	1/4W
R915	1-249-417-11	CARBON	1K	5%	1/4W
R916	1-249-417-11	CARBON	1K	5%	1/4W
R917	1-247-807-31	CARBON	100	5%	1/4W
R918	1-249-435-11	CARBON	33K	5%	1/4W
R919	1-249-425-11	CARBON	4.7K	5%	1/4W
R920	1-249-417-11	CARBON	1K	5%	1/4W
R921	1-247-863-91	CARBON	22K	5%	1/4W
R923	1-249-425-11	CARBON	4.7K	5%	1/4W
R924	1-249-432-11	CARBON	18K	5%	1/4W
R925	1-215-451-00	METAL	18K	1%	1/4W
R926	1-249-434-11	CARBON	27K	5%	1/4W
R927	1-249-434-11	CARBON	27K	5%	1/4W
R928	1-249-434-11	CARBON	27K	5%	1/4W
R929	1-249-436-11	CARBON	39K	5%	1/4W
R930	1-247-881-00	CARBON	120K	5%	1/4W
R931	1-249-428-11	CARBON	8.2K	5%	1/4W
R932	1-249-428-11	CARBON	8.2K	5%	1/4W
R933	1-215-445-00	METAL	10K	1%	1/4W
R934	1-249-428-11	CARBON	8.2K	5%	1/4W
R935	1-249-428-11	CARBON	8.2K	5%	1/4W
R936	1-249-393-11	CARBON	10	5%	1/4W
R937	1-249-428-11	CARBON	8.2K	5%	1/4W
R938	1-249-425-11	CARBON	4.7K	5%	1/4W
R939	1-249-417-11	CARBON	1K	5%	1/4W
R940	1-215-409-00	METAL	330	1%	1/4W
R941	1-249-434-11	CARBON	27K	5%	1/4W
R944	1-249-424-11	CARBON	3.9K	5%	1/4W
R945	1-249-424-11	CARBON	3.9K	5%	1/4W
R946	1-247-903-00	CARBON	1M	5%	1/4W
R947	1-249-439-11	CARBON	68K	5%	1/4W
R948	1-247-903-00	CARBON	1M	5%	1/4W
R949	1-247-883-00	CARBON	150K	5%	1/4W
R950	1-247-883-00	CARBON	150K	5%	1/4W
R951	1-247-883-00	CARBON	150K	5%	1/4W
R952	1-247-883-00	CARBON	150K	5%	1/4W
R953	1-249-425-11	CARBON	4.7K	5%	1/4W
R954	1-249-425-11	CARBON	4.7K	5%	1/4W
R955	1-249-436-11	CARBON	39K	5%	1/4W
R956	1-249-421-11	CARBON	2.2K	5%	1/4W
R957	1-247-852-11	CARBON	7.5K	5%	1/4W
R958	1-249-420-11	CARBON	1.8K	5%	1/4W
R959	1-215-409-00	METAL	330	1%	1/4W
R960	1-249-429-11	CARBON	10K	5%	1/4W
R961	1-215-459-00	METAL	39K	1%	1/4W
R962	1-249-417-11	CARBON	1K	5%	1/4W
R963	1-249-441-11	CARBON	100K	5%	1/4W
R965	1-249-417-11	CARBON	1K	5%	1/4W
R966	1-249-441-11	CARBON	100K	5%	1/4W
R967	1-249-425-11	CARBON	4.7K	5%	1/4W
R969	1-247-863-91	CARBON	22K	5%	1/4W
R970	1-249-417-11	CARBON	1K	5%	1/4W
R972	1-249-429-11	CARBON	10K	5%	1/4W
R974	1-249-393-11	CARBON	10	5%	1/4W F
R975	1-249-421-11	CARBON	2.2K	5%	1/4W
R976	1-249-429-11	CARBON	10K	5%	1/4W
R977	1-249-417-11	CARBON	1K	5%	1/4W
R979	1-249-417-11	CARBON	1K	5%	1/4W
R980	1-249-417-11	CARBON	1K	5%	1/4W
R981	1-247-903-00	CARBON	1M	5%	1/4W
R984	1-247-895-91	CARBON	470K	5%	1/4W
R985	1-249-427-11	CARBON	6.8K	5%	1/4W
R989	1-247-887-00	CARBON	220K	5%	1/4W
R990	1-249-417-11	CARBON	1K	5%	1/4W
R991	1-247-895-91	CARBON	470K	5%	1/4W
R992	1-247-895-91	CARBON	470K	5%	1/4W
R993	1-249-417-11	CARBON	1K	5%	1/4W
R994	1-249-431-11	CARBON	15K	5%	1/4W
R997	1-249-414-11	CARBON	560	5%	1/4W
R998	1-247-895-91	CARBON	470K	5%	1/4W
R999	1-249-429-11	CARBON	10K	5%	1/4W
R1000	1-249-440-11	CARBON	82K	5%	1/4W
R1001	1-249-429-11	CARBON	10K	5%	1/4W
R1002	1-249-417-11	CARBON	1K	5%	1/4W
R1801	1-215-433-00	METAL	3.3K	1%	1/4W
R1803	1-215-419-00	METAL	820	1%	1/4W
R1804	1-215-421-00	METAL	1K	1%	1/4W
R1805	1-215-425-00	METAL	1.5K	1%	1/4W
R1807	1-249-413-11	CARBON	470	5%	1/4W
R1808	1-249-413-11	CARBON	470	5%	1/4W
R1809	1-249-413-11	CARBON	470	5%	1/4W
R1810	1-215-413-00	METAL	470	1%	1/4W
R1811	1-215-409-00	METAL	330	1%	1/4W
R1812	1-215-413-00	METAL	470	1%	1/4W
R1813	1-215-413-00	METAL	470	1%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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The components identified by ⊠ in this manual have been carefully factory-selected for eachset in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R1814	1-215-417-00	METAL	680	1%	1/4W
R1815	1-215-421-00	METAL	1K	1%	1/4W
R1816	1-215-425-00	METAL	1.5K	1%	1/4W
R1817	1-215-425-00	METAL	1.5K	1%	1/4W
R1818	1-215-433-00	METAL	3.3K	1%	1/4W
R1819	1-215-469-00	METAL	100K	1%	1/4W
R1820	1-247-815-91	CARBON	220	5%	1/4W
R1821	1-249-413-11	CARBON	470	5%	1/4W
R1822	1-215-433-00	METAL	3.3K	1%	1/4W
R1823	1-215-413-00	METAL	470	1%	1/4W
R1832	1-215-469-00	METAL	100K	1%	1/4W
R1833	1-247-815-91	CARBON	220	5%	1/4W

<VARIABLE RESISTOR>

⊠ RV470⚠	1-241-767-21	RES, ADJ, CERMET	100K (HV ADJ)
	3-710-578-01	COVER, VOLUME, 6 MOLD ; RV470	
RV601	1-241-764-11	RES, ADJ, CERMET	10K (B+)

<RELAY>

RY601⚠	1-755-128-11	RELAY

<SWITCH>

S500	1-572-707-11	SWITCH, LEVER (H.CENT)
S501	1-553-809-21	SWITCH, SLIDE (H.CENT)
S1801	1-692-431-21	SWITCH, TACTILE (CONT-DOWN)
S1802	1-692-431-21	SWITCH, TACTILE (CONT-UP)
S1803	1-692-431-21	SWITCH, TACTILE (CENT)
S1804	1-692-431-21	SWITCH, TACTILE (BRIGHT-UP)
S1805	1-692-431-21	SWITCH, TACTILE (BRIGHT-DOWN)
S1806	1-692-431-21	SWITCH, TACTILE (SIZE)
S1807	1-692-431-21	SWITCH, TACTILE (GEO)
S1808	1-692-431-21	SWITCH, TACTILE (COLOR)
S1809	1-692-431-21	SWITCH, TACTILE (POWER)
S1810	1-692-431-21	SWITCH, TACTILE (RESET)
S1811	1-692-431-21	SWITCH, TACTILE (VOL-UP)
S1812	1-692-431-21	SWITCH, TACTILE (VOL-DOWN)
S1813	1-692-431-21	SWITCH, TACTILE (MUTE)

<SPARK GAP>

SG501	1-519-422-11	GAP, SPARK

<TRANSFORMER>

T501 ⚠	X-4033-083-1	TRANSFORMER ASSY, FLYBACK (NX-4130//J1E)
T503	1-429-109-11	TRANSFORMER, FERRITE (DFT)
T504	1-429-103-11	TRANSFORMER, FERRITE (HDT)
T505	1-426-998-11	TRANSFORMER, FERRITE (HST)
T601 ⚠	1-429-117-11	TRANSFORMER, CONVERTER (SRT)
T603	1-429-118-11	TRANSFORMER, FERRITE (PST)

<THERMISTOR>

TH501	1-807-796-11	THERMISTOR
TH601⚠	1-810-990-11	THERMISTOR
THP601⚠	1-809-827-21	THERMISTOR, POSITIVE

<CRYSTAL>

X900	1-567-890-11	VIBRATOR, CRYSTAL

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*	8-933-207-00	H BOARD, COMPLETE

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<CAPACITOR>

C907	1-136-165-00	FILM	0.1MF	5% 50V
C911	1-126-096-11	ELECT	10MF	20% 25V
C912	1-126-096-11	ELECT	10MF	20% 25V

<CONNECTOR>

CN901	1-695-915-11	TAB (CONTACT)	
CN902	1-695-915-11	TAB (CONTACT)	
CN903*	1-564-511-11	PLUG, CONNECTOR	8P
CN904*	1-564-520-11	PLUG, CONNECTOR	5P
CN905	1-564-517-11	PLUG, CONNECTOR	2P

<DIODE>

D901	8-719-109-84	ZENER DIODE RD5.1ESB1
D902	8-719-109-84	ZENER DIODE RD5.1ESB1
D908	8-719-991-33	DIODE 1SS133T-77
D909	8-719-991-33	DIODE 1SS133T-77
D910	8-719-991-33	DIODE 1SS133T-77
D911	8-719-991-33	DIODE 1SS133T-77

<JACK>

J901	1-507-806-00	JACK 1P
J902	1-778-547-11	JACK

<RESISTOR>

R903	1-249-417-11	CARBON	1K	5%	1/4W
R907	1-249-413-11	CARBON	470	5%	1/4W
R909	1-249-429-11	CARBON	10K	5%	1/4W
R910	1-249-393-11	CARBON	10	5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	*8-933-206-00	U BOARD, COMPLETE			
		**********			
	4-382-854-01	SCREW (M3X8), P, SW (+)			(IC5600, D5605)
	7-682-950-01	SCREW +PSW 3X12			
		<CAPACITOR>			
C5000	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5001	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C5002	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C5003	1-126-096-11	ELECT	10MF	20%	25V
C5004	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5005	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5006	1-126-096-11	ELECT	10MF	20%	25V
C5008	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5016	1-126-096-11	ELECT	10MF	20%	25V
C5017	1-126-964-11	ELECT	10MF	20%	50V
C5018	1-126-096-11	ELECT	10MF	20%	25V
C5019	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C5020	1-163-005-11	CERAMIC CHIP	470pF	10%	50V
C5021	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5022	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5023	1-136-165-00	FILM	0.1MF	5%	50V
C5202	1-126-964-11	ELECT	10MF	20%	50V
C5203	1-126-964-11	ELECT	10MF	20%	50V
C5204	1-126-096-11	ELECT	10MF	20%	25V
C5205	1-126-096-11	ELECT	10MF	20%	25V
C5206	1-126-096-11	ELECT	10MF	20%	25V
C5207	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5208	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C5209	1-126-096-11	ELECT	10MF	20%	25V
C5210	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
C5211	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
C5213	1-124-257-00	ELECT	2.2MF	20%	50V
C5214	1-124-257-00	ELECT	2.2MF	20%	50V
C5217	1-126-096-11	ELECT	10MF	20%	25V
C5220	1-126-096-11	ELECT	10MF	20%	25V
C5222	1-128-499-11	ELECT	220MF	20%	16V
C5224	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5230	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5233	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C5234	1-137-399-11	FILM	0.1MF	5%	50V
C5235	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5236	1-104-665-11	ELECT	100MF	20%	25V
C5238	1-136-166-00	MYLAR	0.12MF	5%	50V
C5239	1-163-035-00	CERAMIC CHIP	0.047MF		50V
C5240	1-104-665-11	ELECT	100MF	20%	25V
C5241	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5243	1-137-374-11	FILM	0.047MF	5%	50V
C5244	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5245	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5248	1-137-374-11	FILM	0.047MF	5%	50V
C5257	1-104-665-11	ELECT	100MF	20%	25V
C5258	1-104-665-11	ELECT	100MF	20%	25V
C5260	1-126-040-11	ELECT	1000MF	20%	35V
C5263	1-126-040-11	ELECT	1000MF	20%	35V
C5270	1-126-964-11	ELECT	10MF	20%	50V
C5271	1-126-964-11	ELECT	10MF	20%	50V
C5273	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5275	1-137-374-11	FILM	0.047MF	5%	50V
C5276	1-137-374-11	FILM	0.047MF	5%	50V
C5277	1-136-166-00	MYLAR	0.12MF	5%	50V
C5278	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5279	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C5280	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C5281	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C5282	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C5283	1-126-794-11	ELECT	4.7MF	20%	50V
C5284	1-126-794-11	ELECT	4.7MF	20%	50V
C5285	1-126-096-11	ELECT	10MF	20%	25V
C5286	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C5287	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C5288	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C5289	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C5290	1-126-096-11	ELECT	10MF	20%	25V
C5291	1-126-096-11	ELECT	10MF	20%	25V
C5292	1-126-963-11	ELECT	4.7MF	20%	50V
C5293	1-126-964-11	ELECT	10MF	20%	50V
C5294	1-126-964-11	ELECT	10MF	20%	50V
C5295	1-126-963-11	ELECT	4.7MF	20%	50V
C5296	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5297	1-126-022-11	ELECT	47MF	20%	25V
C5298	1-126-096-11	ELECT	10MF	20%	25V
C5299	1-126-933-11	ELECT	100MF	20%	16V
C5300	1-126-964-11	ELECT	10MF	20%	50V
C5301	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5302	1-126-933-11	ELECT	100MF	20%	16V
C5303	1-126-794-11	ELECT	4.7MF	20%	50V
C5304	1-126-794-11	ELECT	4.7MF	20%	50V
C5305	1-126-794-11	ELECT	4.7MF	20%	50V
C5306	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5307	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5308	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C5309	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C5310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5311	1-126-794-11	ELECT	4.7MF	20%	50V
C5602⚠	1-104-705-91	FILM	0.1MF	20%	250V
C5609⚠	1-125-700-21	ELECT	220MF	20%	200V
C5610	1-162-131-11	CERAMIC	220pF	10%	2KV
C5612	1-126-967-11	ELECT	47MF	20%	10V
C5613	1-101-810-00	CERAMIC	100pF	5%	500V
C5615	1-106-220-00	MYLAR	0.1MF	10%	100V
C5616	1-126-964-11	ELECT	10MF	20%	50V
C5617⚠	1-113-894-51	ELECT	100pF	10%	250V
C5618	1-126-946-11	ELECT	6800MF	20%	25V
C5619	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5620	1-124-564-11	ELECT	4700MF	20%	25V
C5621	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C5622	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C5623	1-136-203-11	FILM	0.01MF	5%	630V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN5000	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN5001	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN5200	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN5201	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P	
CN5202	1-564-505-11	PLUG, CONNECTOR 2P	
CN5203	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN5601	⚠1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN5603	1-695-915-11	TAB (CONTACT)	
CN5604	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D5003	8-719-921-54	ZENER DIODE MTZJ-6.2B	
D5202	8-719-991-33	DIODE 1SS133T-77	
D5203	8-719-991-33	DIODE 1SS133T-77	
D5206	8-719-991-33	DIODE 1SS133T-77	
D5207	8-719-991-33	DIODE 1SS133T-77	
D5208	8-719-991-33	DIODE 1SS133T-77	
D5209	8-719-991-33	DIODE 1SS133T-77	
D5210	8-719-991-33	DIODE 1SS133T-77	
D5211	8-719-110-49	ZENER DIODE RD18ESB2	
D5601	⚠8-719-510-63	DIODE D4SB60L	
D5602	8-719-979-64	DIODE UF4005PKG23	
D5603	8-719-059-23	ZENER DIODE P6KE200AG23	
D5604	8-719-510-48	DIODE D1N20R	
D5605	8-719-510-37	DIODE D5LC20U	
D5606	8-759-908-15	IC TL431CLP	
D5607	8-719-991-33	DIODE 1SS133T-77	
D5608	8-719-991-33	DIODE 1SS133T-77	
D5609	8-719-175-88	ZENER DIODE RD7.5F-B	
		<FERRITE BEAD>	
FB5601	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
		<IC>	
IC5000	8-759-501-99	IC ST93C46CB1	
IC5001	8-759-150-61	IC UPC78L05T	
IC5002	8-759-430-22	IC HD404344-A97S	
IC5005	8-759-100-96	IC UPC4558G2	
IC5006	8-759-074-40	IC PST572DMT-T1	
IC5200	8-759-245-75	IC TA8184P	
IC5201	8-759-821-92	IC LA4630N	
IC5202	8-759-100-96	IC UPC4558G2	
IC5203	8-759-100-96	IC UPC4558G2	
IC5204	8-759-100-96	IC UPC4558G2	
IC5205	8-759-145-57	IC UPC4557C	
IC5206	8-759-100-96	IC UPC4558G2	
IC5600	⚠8-759-433-72	IC PWR TOP204YAI-BB	
IC5601	8-759-506-12	IC PQ12RF1	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CHIP CONDUCTOR>	
JR5001	1-216-295-91	CONDUCTOR, CHIP	
JR5002	1-216-295-91	CONDUCTOR, CHIP	
JR5003	1-216-295-91	CONDUCTOR, CHIP	
JR5004	1-216-295-91	CONDUCTOR, CHIP	
JR5005	1-216-295-91	CONDUCTOR, CHIP	
		<COIL>	
L5600	1-406-972-11	COIL, CHOKE 15UH	
		<PHOTO COUPLER>	
PH5600	⚠8-749-010-65	PHOTO COUPLER PC123F2	
		<IC LINK>	
PS5200	1-533-597-31	RINK, IC 5A	
		<TRANSISTOR>	
Q5001	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5201	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5203	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5204	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5214	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5215	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q5216	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q5217	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q5218	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q5219	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q5601	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R5000	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R5001	1-216-295-91	CONDUCTOR, CHIP	
R5002	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R5003	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R5004	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R5005	1-216-121-91	METAL GLAZE 1M 5% 1/10W	
R5006	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R5007	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R5015	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R5018	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
R5033	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R5034	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R5035	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R5036	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R5037	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R5038	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5039	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R5040	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R5042	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R5043	1-216-093-00	METAL GLAZE 68K 5% 1/10W	

U

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK
R5044	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5045	1-216-304-11	METAL GLAZE	3.3	5% 1/10W
R5202	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5203	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5204	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5205	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5206	1-216-105-91	METAL GLAZE	220K	5% 1/10W
R5207	1-216-113-00	METAL GLAZE	470K	5% 1/10W
R5208	1-216-105-91	METAL GLAZE	220K	5% 1/10W
R5209	1-216-113-00	METAL GLAZE	470K	5% 1/10W
R5210	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5211	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5212	1-216-061-00	METAL GLAZE	3.3K	5% 1/10W
R5213	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5214	1-249-377-11	CARBON	0.47	5% 1/4W F
R5215	1-249-377-11	CARBON	0.47	5% 1/4W F
R5217	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5218	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5219	1-216-688-11	METAL CHIP	36K	0.50% 1/10W
R5220	1-208-810-11	METAL CHIP	15K	0.50% 1/10W
R5223	1-208-814-11	METAL CHIP	22K	0.50% 1/10W
R5224	1-208-814-11	METAL CHIP	22K	0.50% 1/10W
R5226	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5229	1-216-295-91	CONDUCTOR, CHIP		
R5234	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R5236	1-249-385-11	CARBON	2.2	5% 1/4W F
R5237	1-249-385-11	CARBON	2.2	5% 1/4W F
R5241	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R5246	1-216-298-00	METAL GLAZE	2.2	5% 1/10W
R5252	1-216-298-00	METAL GLAZE	2.2	5% 1/10W
R5260	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5261	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5262	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5263	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5264	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5265	1-216-093-00	METAL GLAZE	68K	5% 1/10W
R5275	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5276	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5277	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5278	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5279	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5281	1-208-814-11	METAL CHIP	22K	0.50% 1/10W
R5282	1-208-814-11	METAL CHIP	22K	0.50% 1/10W
R5283	1-216-671-11	METAL CHIP	6.8K	0.50% 1/10W
R5284	1-216-671-11	METAL CHIP	6.8K	0.50% 1/10W
R5285	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5286	1-216-105-91	METAL GLAZE	220K	5% 1/10W
R5287	1-216-695-11	METAL CHIP	68K	0.50% 1/10W
R5288	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5289	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5290	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5291	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5292	1-208-814-11	METAL CHIP	22K	0.50% 1/10W
R5293	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5294	1-208-814-11	METAL CHIP	22K	0.50% 1/10W
R5295	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5296	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5297	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5298	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5299	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5300	1-218-753-11	METAL CHIP	110K	0.50% 1/10W
R5301	1-218-753-11	METAL CHIP	110K	0.50% 1/10W
R5302	1-208-822-11	METAL CHIP	47K	0.50% 1/10W
R5303	1-216-295-91	CONDUCTOR, CHIP		
R5304	1-216-295-91	CONDUCTOR, CHIP		
R5305	1-216-295-91	CONDUCTOR, CHIP		
R5306	1-216-673-11	METAL CHIP	8.2K	0.50% 1/10W
R5307	1-216-673-11	METAL CHIP	8.2K	0.50% 1/10W
R5308	1-216-677-11	METAL CHIP	12K	0.50% 1/10W
R5309	1-216-041-00	METAL GLAZE	470	5% 1/10W
R5310	1-216-041-00	METAL GLAZE	470	5% 1/10W
R5311	1-216-041-00	METAL GLAZE	470	5% 1/10W
R5312	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5313	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5314	1-216-295-91	CONDUCTOR, CHIP		(2012)
R5316	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5317	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5319	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5320	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5321	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5322	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5323	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5324	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5325	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5326	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5327	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5328	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5329	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5603	1-215-907-11	METAL OXIDE	22	5% 3W F
R5604	1-249-377-11	CARBON	0.47	5% 1/4W F
R5606	1-216-308-00	METAL GLAZE	4.7	5% 1/10W
R5607	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5609	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5610	1-208-814-11	METAL CHIP	22K	0.50% 1/10W
R5611	1-208-812-11	METAL CHIP	18K	0.50% 1/10W
R5612	1-208-806-11	METAL CHIP	10K	0.50% 1/10W
R5613	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5614	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5615⚠	1-205-998-11	WIREWOUND	1	5% 10W
R5616	1-215-863-11	METAL OXIDE	100	5% 1W F
R5617	1-202-933-61	FUSIBLE	0.1	10% 1/2W F
R5618	1-215-925-11	METAL OXIDE	22K	5% 3W F
R5619	1-215-879-11	METAL OXIDE	47K	5% 1W F
R5621	1-216-649-11	METAL CHIP	820	0.50% 1/10W
R5622	1-249-429-11	CARBON	10K	5% 1/4W

<RELAY>

RY5600⚠	1-755-016-11	RELAY

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSFORMER>	
T5601	⚠1-429-823-11	TRANSFORMER, CONVERTER (SRT)	
		<CRYSTAL>	
X5000	1-567-192-11	OSCILLATOR, CERAMIC	
		**********	
		MISCELLANEOUS	
		**********	
	⚠1-409-799-21	COIL, DEMAGNETIZATION	
	⚠1-452-756-11	NECK ASSY, PICTURE TUBE	(NA293)
	1-505-439-11	SPEAKER (3X10CM)	
	1-505-440-11	SPEAKER (7CM)	
	1-542-302-11	MICROPHONE ASSY	
	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
	⚠1-534-827-14	CORD, POWER 10A/125V	
	1-777-476-11	CABLE ASSY (15P DSUB CONNECTOR)	
	⚠8-451-469-21	DEFLECTION YOKE (Y15FRF2M2)	
V901	⚠8-734-833-05	PICTURE TUBE (15FRS)	

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Quality Engineering Dept.

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